

London, May 31, 1792.

TO THE ENCOURAGERS OF THE POLITE ARTS.

THIS DAY IS PUBLISHED, No. I. OF A NEW WORK,

GOTHIC STYLE OF ARCHITECTURE,

DEDICATED TO THE RIGHT HONOURABLE WILLIAM CONYNGHAM.

PROPOSALS

FOR PUBLISHING BY SUBSCRIPTION,

DESIGNS OF THE CHURCH AND ROYAL MONASTERY OF B A T A L H A,

Including the MAUSOLEUM of King JOHN I. and King EMANUEL,
Situate in the Province of ESTRE-MADURA, in PORTUGAL;

Measured and Drawn on the Spet, in the Year 1789,

.BY JAMES MURPHY, ARCHITECT.

An Historical and Descriptive Account of this famous Gothic Structure;

Translated from the Portiguified FR. LUIS DE SOUSA.

With REMARKS and OBSERVATIONS by the AUTHOR.

TERMS OF THE SUBSCRIPTION

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The Price to Subferibers will be Half-a-Guines each Namber, or Fifteen Shillings elegantly ell'inited on tiperfine Vellum Paper, betide Half-a-Guines to be paid at the Time of Subferhang.

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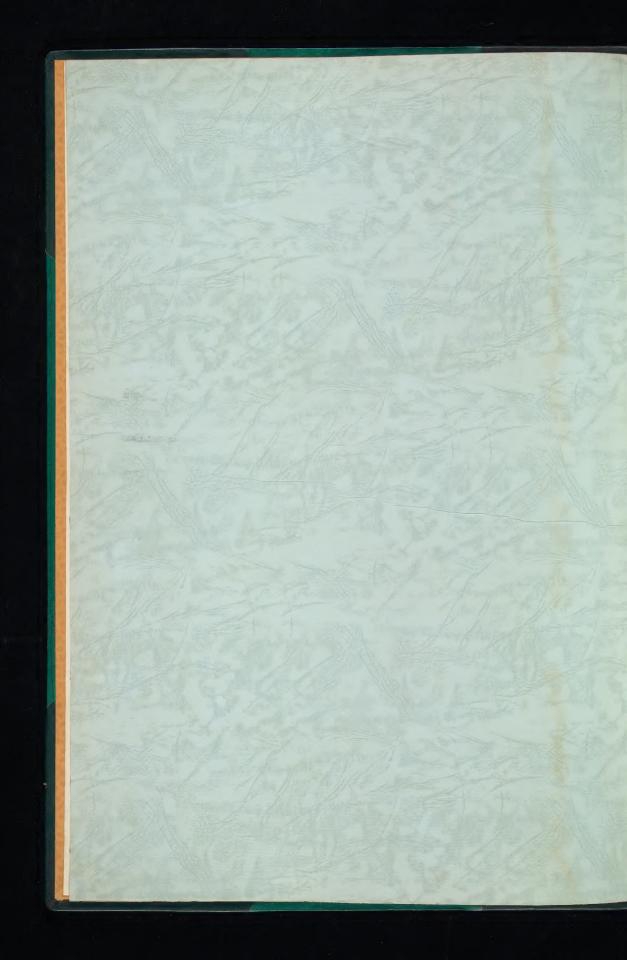
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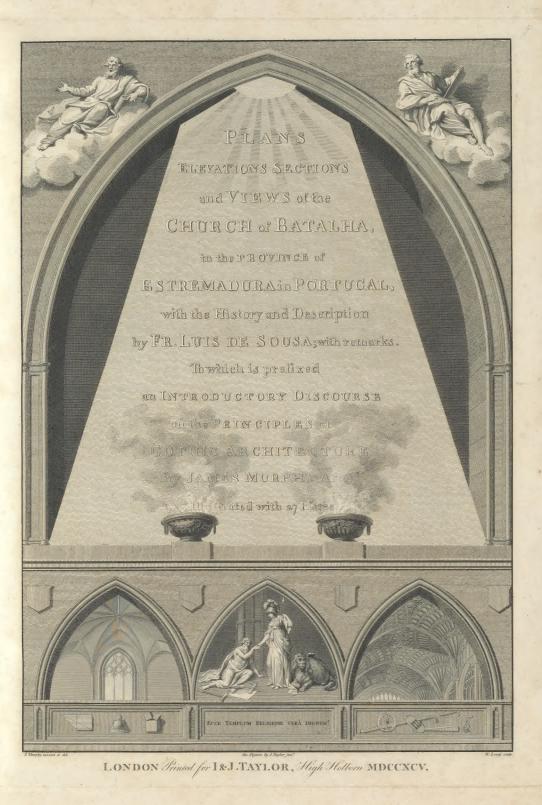
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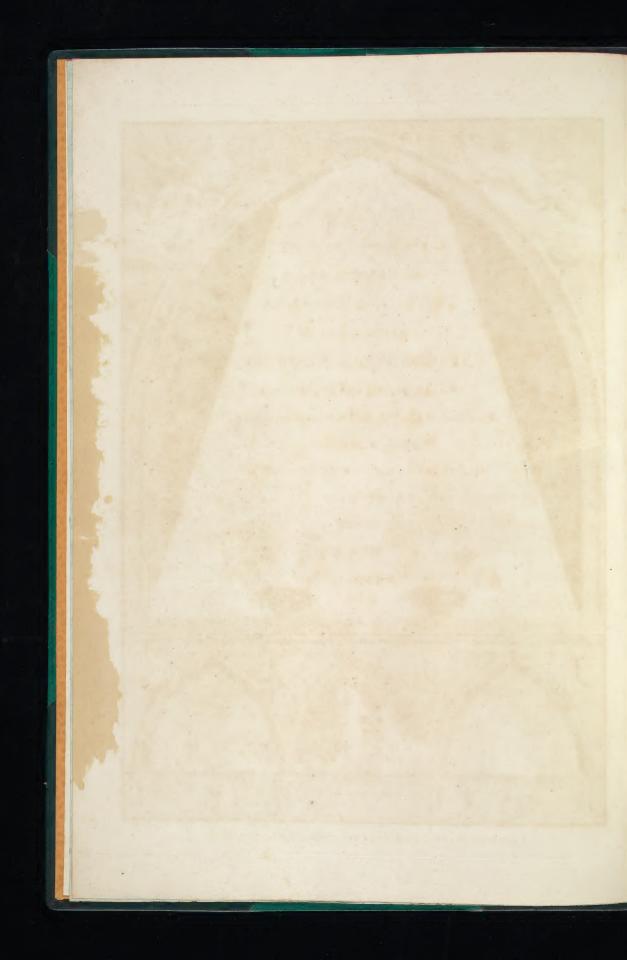
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# TO THE RIGHT HOTOGRABLE: WILLIAM, CONTROLEM;

ONE, OF, HIS, MAJESTY'S, MOST, HONOURABLE PRIVY. COUNCIL:

TELLER. OF, THE EXCHE QUER .IN, IRELAND.

TREASURER.OF, THE, ROYAL, IRISH, ACADEMY.

FELLOW. OF. THE. SOCIETY. OF. ANTIQUARIES. LONDON. &c.&c.

THIS, WORK, IS, HUMBLY, DEDICATED:

BY. HIS. PIOST. OBEDIENT.

AND. VERY, MUCH, OBLICED.

HUMBLE. SERVANT.

LOND ON MAY THE MD.CCXCH.

JAMES, MORPEY,



### PREFACE.

THE Royal Monastery of Batalha, the subject of the following Work, is a structure very little known, though the excellence of its architecture justly entitles it to rank with the most celebrated Gothic edifices of Europe. My first knowledge of this venerable pile, was derived from seeing some sketches of it in the possession of the Right Honourable William Conyngham, taken by himself, and two other gentlemen \* who travelled with him through Portugal in the year 1783. These sketches, which are very correct representations of the original, gave me so high an idea of that building, as to excite in me an earnest desire to visit it; and the above Gentleman having generously offered me his patronage and support, I set out from Dublin, in a trading vessel, and arrived at Oporto in the month of January 1789. Whence I departed after a short stay, and in seven days reached Batalha, where I was kindly received by the Prior and all the Convent.

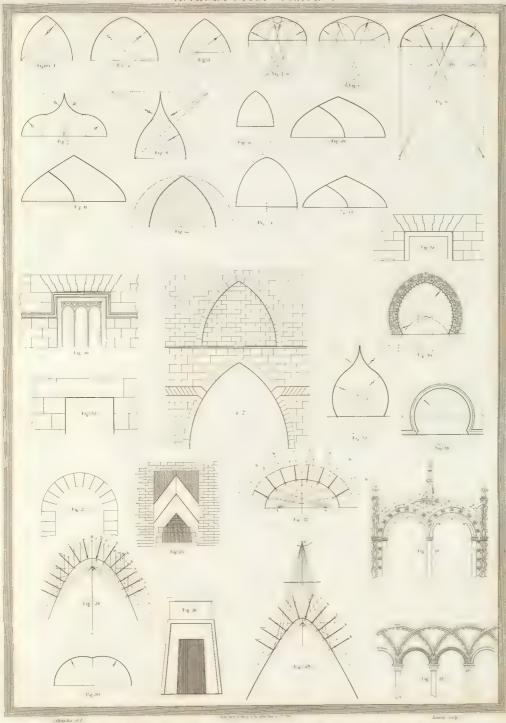
This Monaftery is fituated in a finall village of the fame name, in the province of Eftremadura in Portugal, about fixty miles N. of Lifbon; it is environed by mountains, fome of which produce pine and olive trees. The country around it is pretty well cultivated, particularly the plains, which are naturally fertile, and well watered, yielding great quantities of excellent grapes and olives. The village is inhabited chiefly by indigent but induftrious people, many of whom derive a comfortable fubfiftence from their employments in the fervice of the Convent.

The building, considering its age, is in good preservation, and has suffered very little from the usual injuries of the elements; owing to the durability of the materials, and the serenity of the climate. Some parts, however, have been damaged by the fatal earthquake of 1745, and the spire that crowned the Mausoleum of the founder (King John I.) was entirely destroyed by that disaster, but fortunately, in its fall, did not hurt any part of the inside. This spire has not been rebuilt; the other parts of the Mausoleum which received most injury, have been decently repaired in their former style, through the munisscence of His Most Faithful Majesty the late King, Joseph I. Some of the pinnacles, and parts of the railing of the Church, were also thrown down, or deranged, at the same time; and had not been replaced when these observations were made, in 1789. This however we must attribute, not to any neglect on the part of the Fathers, but to the poor revenue of the Convent; for, to do them justice, they hold this edifice in great veneration, and, as far as circumstances will allow, are careful in repairing and cleaning it. They cannot, indeed, completely repair past damages, but they use every precaution in their power against future ones.

In the Church belonging to this Monastery, we observe none of those trifling and superfluous sculptures, which but too often are seen to crowd other Gothic edifices. Whatever ornaments are employed in it, are sparingly, but judiciously disposed; particularly in the inside, which is remarkable for a chaste and noble plainness; and the general effect, which is grand and sublime, is derived, not from any meretricious embellishments, but from the intrinsic merit of the design. The forms of its mouldings and ornaments, are also different from those of any other Gothic building that I have seen. This difference chiefly consists in their being turned very quick, and cut sharp and deep; with some other peculiarities, which the plates of this work will sufficiently explain. Throughout the whole are seen a correctness and regularity, which evidently appear to be the result of a well conceived original design; it is equally evident that this design has been immutably adhered to, and executed in regular progression, without those alterations and interruptions to which such large buildings are commonly subject.

These and other considerations equally interesting, induced me to measure and delineate the whole, with as much accuracy as possible; which I completed in thirteen weeks; during which time I lodged and boarded in the Convent. I am happy in this opportunity of returning my most sincere thanks to the Prior, the Hospedeiro Mor, and the rest of the Fathers of Batalha, for the politeness and attention they constantly shewed me. The piety, hospitality, and simplicity of these reverend Fathers, can scarcely be imagined in these degenerate times; they call to our recollection the description historians give us, of the Christians of the Apostolic ages; their fanctity of manners increases the dignity of the venerable mansion they inhabit.

I cannot conclude without acknowledging my obligations to the Right Honourable William Conyngham, by whose munificence I have been enabled to carry on this work. The Portuguese have too much gratitude, not to add their acknowledgments to him also, for having made known the merits of this inimitable structure. Till now, no part of it, so far as I could learn, has ever been published. The honour of presenting it to the world, was reserved for a private Gentleman, a native of Ireland, who, induced by no other motive than a love of the sine Arts, and a wish for the advancement of Science, has expended upwards of One Thousand Pounds, in rescuing this noble edifice from the obscurity in which it has lain concealed for ages.—I have taken the liberty to dedicate this Work to him, in consideration of his exemplary liberality, and as an humble testimony of my everlasting gratitude and respect.

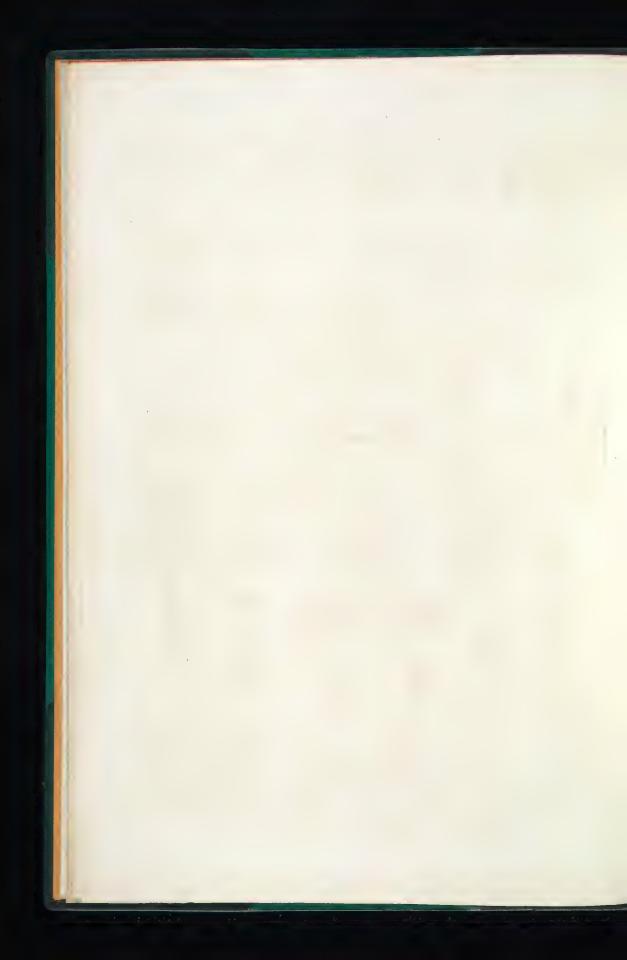


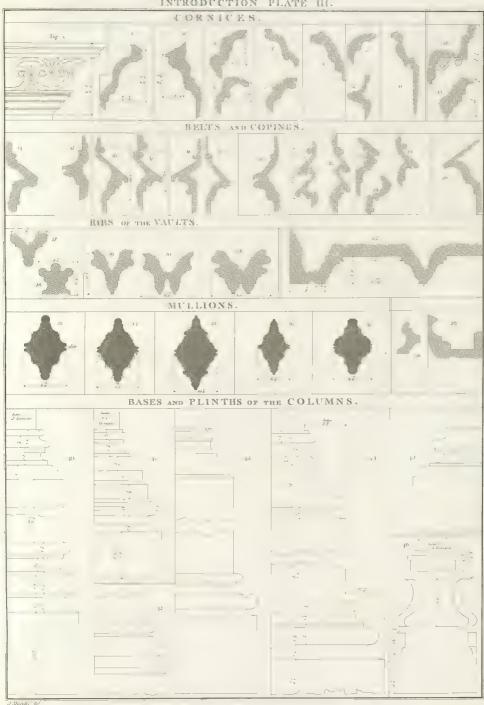
ARCHES OF VARIOUS KINDS:





FRAGMENTS OF GOTHIC ARCHITECTURE.

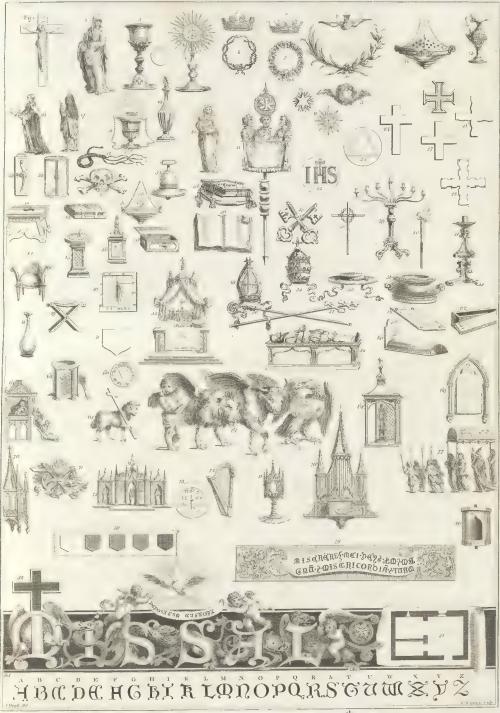




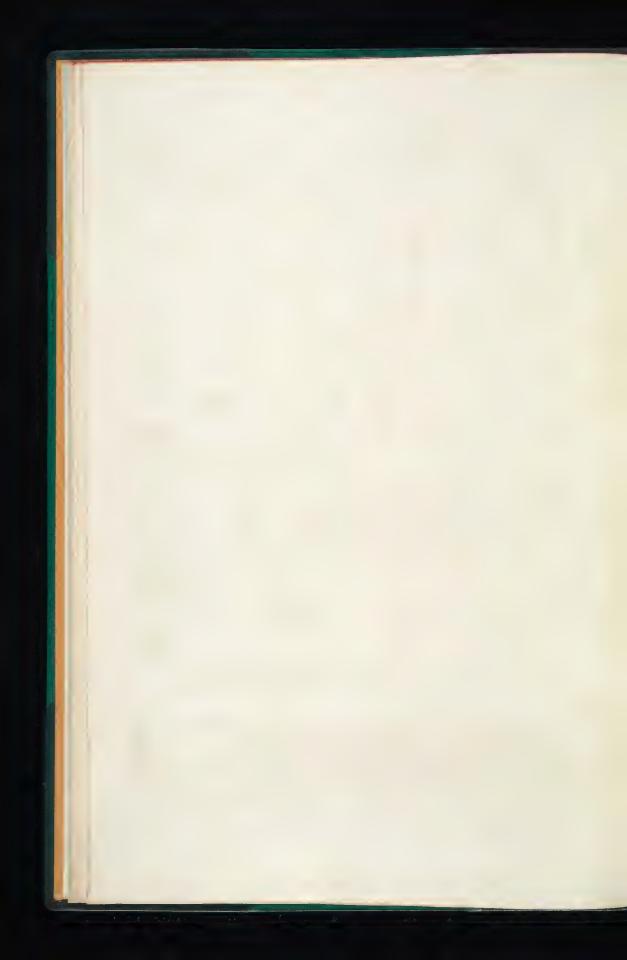
FRAGMENTS OF GOTHIC ARCHITECTURE. BATALHA.

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RELIGIOUS CUSTOMS OF THE 13th CENTURY.



## INTRODUCTION.

WHILST the remains of the edifices of ancient Greece and Rome, have been measured and delineated with the greatest accuracy, by many persons well qualified for the task, very sew have directed their enquiry towards the principles of that style of architecture called Gothic. This neglect may, in a great measure, be attributed to a prejudice arising from a mistaken notion of its having originated with a tribe of barbarians, from whom nothing excellent could be expected; but there is no reason to suppose, that they have any claim to the invention of that elegant species of it which is exhibited in the following work. This species is allowed by the most competent judges, to have originated with the Normans, towards the conclusion of the twelsth century, and is generally known by the name of the Modern Norman Gothic.

Many ingenious men, who have carefully examined the best churches executed in this style, allow they are highly deserving of attention, whether we consider them as vestiges of art, or as monuments of the industry and manners of former ages. An eminent Artist of the present time, who is very competent to judge of their merit, remarks that, "to those usually called Gothic Architects, we are indebted for the first considerable improvements in construction; there is a lightness in their works, an art and boldness of execution, to which the ancients never arrived, and which the moderns comprehend and imitate with difficulty."\*

These circumstances might be considered as sufficient inducement to investigate the principles on which those edifices are built, but they have other claims to our notice. No other mode of building is so well calculated to excite sublime and awful sensations; and if we admire the heathen temples of ancient Greece and Rome, because they awaken these emotions in us, we must furely esteem these Christian temples, as they certainly produce that essection a superior degree, though, in the construction of most of them, nothing is used but the mere produce of the quarry. Of this we have a striking instance in the church of Batalha, which is formed out of as simple materials as the great pyramid of Egypt; yet the simplicity of its matter, but augments the gracefulness of its appearance.

When we consider the difficulty the Architects of these edifices had to contend with, from the ignorance of the times, and the debased state of every Art and Science, we must confess they had more merit than is generally allowed them; for, notwithstanding these powerful barriers, their works discover signs of mathematical knowledge, of philosophical penetration, and of religious sentiments, which future generations may perhaps feek for in vain, in the productions of the Architects of this enlightened age.

The earliest specimens of this manner of building in England were, I believe, finished about the beginning of the thirteenth century; and though, perhaps, not constructed in imitation of any ancient models, were carried to a greater pitch of excellence in less time, than history records of any other species of Architecture; and may be mentioned as remarkable inflances of the vigorous exertions of the human mind, in the early stages of an art. It must however be expected, that some defects are to be found in these edifices, as perfection, in any art, is a plant of flow growth. But if this mode of building had still continued to be cultivated, with that ardour which marked its progress in this country, a little before the period of its final diffolution; improved by the affemblage of various feattered perfections, and graced by emanations from the kindred arts, what excellence might we not reasonably expect to have feen it brought to, when the excrefcences, and inelegancies, of ruder times, would have been lopped off by the hand of tafte.

The following work exhibits one of the best specimens existing of the Gothic style, in which I have attempted to follow the manner practifed by former artifts, with fo much fuccefs, in describing and delineating the ancient edifices of Rome; and though it cannot be expected that this fingle specimen, however excellent, will be sufficient to afcertain completely the principles on which Gothic Edifices are built, yet, I trust that it will help to develop those intricacies of construction, which no one has hitherto attempted to explain, and that with the affiftance of other attempts of the fame nature, we may be led to comprehend the mysterious rules of the Reverend Fathers who are supposed to have been their Architects.\*

The writers who have hitherto treated on this fubject, have principally directed their attention to the POINTED ARCH, which they feem to confider as the leading

----Monsteur Felibien, speaking of the Architecture | that in France the first monks worked themselves in building their monasteries, employing the most intelligent of their community to conduct these works, with out the affiftance of the laity; nay, even the superiors were often at the head of their monks, to give the defigns, and to trace the form in which the stones were to be cut. This employment was so far from degrading the ecclesiastic dig-nity, that many of the bishops thought it an honour to be reputed the architects, and overfeers of the churches which they built, imitating in that respect, the High-priefts of the Jewish law, who, it is faid, employed themselves in building

of the Sixth Century, fays, "In conftructing the different edifices I have mentioned, they employed no workmen fearcely but masons, who had no further knowledge of the science than the practice of preparing the mortar well, and of choosing good materials; in which, indeed, they took fuch precaution, that nothing can be more folid than their works. I do not, however, rank such persons among the number of Architects. I believe that there were very few lay-men deferving this title under our first kings, as most of them were at that time occupied in what related to the profession of war, leaving to the churchmen the care of cultivating the Sciences,

and repairing the Temple of Jerusalem."

Entretiens fur la vie des Architectes, tom, v. p. 167.

Entretiens fur la vie des Architectes, tom, v. p. 167. and the fine Arts. What strengthens this opinion respecting Architecture, is,

characteristic of this species of Architecture. Many disquisitions have been written concerning its origin, but it still remains unexplained. I have bestowed much thought on this part, and flatter myself, that though the conjectures I am now about to offer respecting its origin are entirely new, they will upon mature consideration, be allowed to approach as near to certainty as the nature of the subject will admit.

If the Pointed Arch be confidered detached from the building, its origin may long be fought for in vain, and indeed I imagine that this is the reason it has eluded the refearches of fo many ingenious men; but, on the contrary, if we examine it in a relative view, as a part in the composition of the whole, it will become more eafy to account for its form, or for that of any other component part. If we take a comprehensive view of any of these structures externally, we shall perceive that not only the arch, but every vertical part of the whole superstructure terminates in a point. And the general form, if viewed from any of the principal entrances, (the station from whence the character of an edifice should be taken) will be found to have a pyramidal tendency. The Porticos of the first story, whether they be three, or five in number, are reduced to one at the top, and this is fometimes crowned with a lofty pediment, which might more properly be called a pyramid, as we see in the transept front of Westminster Abbey, and York Minster. If we look further on, in a direct line with its apex, we frequently fee a lofty spire, or pyramid, rising over the intersection of the nave and transept. Each of the buttreffes and turrets is crowned with a fmall pyramid. If niches are introduced they are crowned with a fort of pyramidal canopy. The arches of the doors and windows terminate in a point; and every little accessory ornament, which enriches the whole, has a pointed or angular tendency. Spires, pinnacles, and pointed arches;\* are always found to accompany each other, and very clearly imply a fystem founded on the principles of the Pyramid.

It appears evident, from these instances, that the pyramidal form actually exists throughout the feveral component parts, and the general disposition of the edifice, approaches as near to it, at leaft, as the ordonnance of an historical painting which is faid to be pyramidally grouped. Hence we may comprehend the reason why the arch was made pointed, as no other form could have been introduced with equal propriety, in a pyramidal figure, to answer the different purposes of uniformity; fitness; and strength. It is in vain, therefore, that we seek its origin in the branches of trees; or in the interfection of Saxon or Grecian circles; or in the perspective of arches; or in any other accidental concurrence of fortuitous

e "As for figires and pinnacles with which our oldert charches are fometames; and more modern once are frequently decorated, I think they are not very ancient. The towers and turrets of churches, built by the Nermaris in the fifth century after the towers and turrets of churches, built by the Nermaris in the fifth century after the towers and turrets of churches, built by the Nermaris in the fifth century after the towers and turrets of churches, built by the Nermaris in the fifth century after the towers and turrets of churches, built within that period, we now fee finished with pinnacles of them indeed, built within that period, we now fee finished with pinnacles of them indeed, built within that period, we now fee finished with pinnacles of them indeed, built within that period, we now fee finished with pinnacles of them indeed, built within that period, we now fee finished with pinnacles of the pinnacles of

circumstances. The idea of the pointed arch seems clearly to have been suggested by the Pyramid, and its origin, must consequently be attributed, not to accident, but to ordination.

But granting for a moment that any of the above mentioned conjectures were true, we should be as far as ever from ascertaining the principles of these edifices. There never was a species of Architecture the properties of which could be determined from the arch alone. Even in the Gothic, where it forms so conspicuous a part, it does not govern in the composition, but follows the general order of things, as it is not a cause, but a concomitant part, and its pointed termination is a consequence arising from a general actuating principle.

Whether the Gothic Architects were the inventors of this Arch, or borrowed the idea of it from others, is not eafy to determine; but it is very reasonable to suppose that it originated with themselves, as they were the only scientific builders known to have used the pyramidal sigure in the composition of their edifices, except the Egyptians; \* and it is generally supposed that the latter were ignorant of the art of constructing arches, though, in other respects, an ingenious people. But the Gothic Architects, in using this Arch, did no more, in my opinion, than the Greeks or Romans would have done in similar circumstances. For, if we suppose for a moment, that an Athenian Artist of the age of Pericles, or a Roman Architect of the Augustan age, had been called in to finish a Gothic structure that had neither doors nor windows, he could not, I think, have introduced any other but a Pointed Arch, in an edifice where every part grew up to a point, without being guilty of a direct violation of the laws of art, and of the precepts so strongly inculcated in the Architecture of his own country.

The rule observed by the Gothic Architects, of adapting the form of the arch to the general figure of the edifice, is I believe, consonant with the custom of the ancients, though I cannot find that any writer, ancient or modern, has taken notice of this circumstance. The Grecian temples, which were chiefly of an oblong form, have their doors and windows terminated horizontally, in all the designs that I have seen of the ruins of that country; some exceptions may perhaps be found, but I believe they never occur, except where propriety was made subservient to convenience.

<sup>\*</sup> The maints of ancient Egypt, though imacquainted with the art of forming an arch, as fome will have it, cloted both the internal and external apertures of being Pyramids in a manurer that refembled, as near as possible, a pointed Arch.—

"In the gallery or narrow pullages in the great Pyramid of Gize, and in the two

The Romans, who indulged in a greater variety of forms, furnish us with many examples wherein this principle of uniformity is observed; the doors and windows of their quadrangular edifices being, generally speaking, closed horizontally in the manner of the Grecians, and the apertures of their rotund edifices terminated with semi-circular arches, as we see in the Amphitheatre at Verona, and in the Colifeum, the Theatre of Marcellus, the Temple of Bacchus and Faunus at Rome, &c.\* To which uniformity these buildings are indebted for a great part of their beauty. Of this the author of the ingenious Inquiry into the Origin of our Ideas of the Sublime and Beautiful,+ appears to have been perfectly fensible. " It is in a kind of artificial infinity;" (he fays) "I believe we ought to look for the cause why a rotund has fuch a noble effect. For in a rotund, whether it be a building or a plantation, you can no where fix a boundary; turn which way you will, the same object still feems to continue, and the imagination has no rest. But the parts must be uniform, as well as circularly disposed, to give this figure its full force; because any difference, whether it be in the disposition, or in the figure, or even in the colour of the parts, is highly prejudicial to the idea of infinity, which every change must check and interrupt, at every alteration commencing a new feries."

Indeed, there is no fpecies of Architecture that has the least claim to excellence, wherein this uniform confent of parts, has not been considered as indispensably necessary to the general effect and harmony of the composition. We even find it observed in those simple structures of the Egyptians, that resemble a frustum of a pyramid; which structures probably first suggested the idea of doors with oblique fides, narrower at the top than at the bottom, as described in the fixth chapter of the fourth book of Vitruvius. Doors of this fort, having fitness to recommend them, in a building of that kind, as well as convenience, on account of their shutting themfelves, a property they derive from the nature of their figure, were wifely adapted in those artless times, and would be equally proper now, if similar reasons should justify their restoration.§

Upon the whole, if the form of the arches, employed in closing the apertures of a regular edifice, contributes in any degree to the effect and harmony of the composition; it is probable, that the order here affigned to each, appears the most natural, and the most consistent with the rules of sitness and uniformity; that is to say,

A pointed arch, in a pyramidal structure.

An horizontal arch, (if the term be allowed) in a fquare or oblong building; And a femi-circular arch in a rotund.\*\*

<sup>\*</sup> See Defgodetz, p. 28, 32, 110, 124, 127, and 139.

The Pantheon, one of the noblest monuments of antiquity, cannot be brought as a fair exception to this rule, on account of the various attentions it has under-the entrance of the new Chapel of the Royal Hofpital at Greenwich, with an ob-liquity lefs than taught by Vitruvius. gente, py resultang and repairs, after the greatest pair to its original mentions.

| Like fig. 1, 8, 9, 12, 13, in plate 1. Introduction.
| Fig. 133.

<sup>\$</sup> See Fig. 26. plate 1. Introduction. See also Norden's travels, plate 101. vol. 2. § The late Mr. Stuart has, not injudiciously, intro

q Fig. 15 and 16.

Whatever merit these different arches may possess, abstracted from their properties of strength, they shew it to most advantage by this arrangement; but, on the contrary, if this arrangement were transposed, the incongruity resulting from such a discordant composition would be so apparent, as to destroy the effect of the whole edifice.

The Gothic Architects appear to have been no strangers to the propriety of the preceding ordinance, as is manifest from the various kinds of arches they employed, to coincide with the contingent forms of their buildings; and whoever should undertake to determine their style of Architecture, from the pointed tendency of the arch alone, would not always be correct in his decision. Their best Artists made it a rule, to adopt the arch that was most congenial in its form to the figure of the edifice. The femi-circle was therefore excluded, because their structures were never round: but where the afpect of the edifice was horizontal, the apertures also were closed horizontally.

The Refectory at Batalha,\* which is not an inelegant specimen of Gothic Art, furnishes us with a striking example of this nature, that enables us to reason on facts. The general Figure of the plan, and of the elevation, of this Refectory, is nearly like that of a low Grecian Pavilion, and all its apertures, without exception, are closed in the Grecian manner; + but if each of its buttreffes, instead of terminating under the cornice, had been carried above the railing and crowned with a pinnacle, and the ends, if finished, with sharp pointed gables, its apertures, in that case, I conceive, would not have been closed horizontally, but with a pointed arch, somewhat similar to those of King's College Chapel, at Cambridge. Hence it appears, that it was propriety, and not caprice, that influenced the Gothic Architects in closing the apertures of their edifices; and that a building may be in the true style of the modern Norman Gothic, without possessing a single pointed arch.‡

Some examples, I am aware, may be pointed out among the Greeks and Romans, of a practice contrary to what is here laid down; but these exceptions are merely accidental, or introduced through necessity, which often excludes all other considerations.

Among fuch a number of Architects, as flourished during the continuation of the Greek and Roman empires, there must, no doubt, have been many, who were ignorant of the true principles of this complicated art; and, from the designs of fuch perfons, we cannot with propriety draw affirmative conclusions, nor confider their works in any other view, than as monuments of errors; and no errors, however ancient, or however countenanced by long practice, are fit objects of imi-

<sup>\*</sup> See the plate of the West Elevation of this Refectory.

<sup>‡</sup> Buildings of certain kinds may be in the true M. N. Gothic Style, without pointed Arches, but churches cannot, for reasons which will be shewn hereafter.

<sup>§</sup> Vegetius fays, that in his time 700 Architects were computed at Rome.

q Vitruvius, in Proem to B. iii. and B. vi. mentions, that there were many in his time professing themselves Architects, who were ignorant, not only of the found principles of Architecture, but of every thing relating to building.

tation. If rules were laid down for determining, with precision, what ancient monuments are of the true standard principle of correctness, they would greatly contribute to accelerate the progress of Architecture. But, to ascertain such rules, would require the qualifications of the Philosopher, united with those of the Artist. He, whose mind is enlightened by these reasoning powers, knows how to stamp a just value upon works of real merit, and to reject any excrescence that "Old Time," as Milton says, "with his huge drag-net, has conveyed down to us along the stream of ages."

#### EXPLANATION OF THE SEVERAL ARCHES

#### IN PLATE I.-INTRODUCTION.

Fig. 1. THE common pointed arch.\*

Fig. 2. An arch of the third point. This arch is used in many parts of the church of Batalha. In the side elevations of churches it has an agreeable appearance, as being an equation between the high pointed and low arch.

Fig. 3. A fection of the common pointed arch. Fig. 1.

Fig. 4. Fig. 5. and Fig. 6. Pointed scheme arches.

The points from whence the upper parts of Fig. 6. are formed, are found thus: Divide the circumference of one of the circles into six equal parts; from 1 to 4 of these divisions, draw the indefinite right line 1 4 b, and where it intersects the line c b, as at b, drawn perpendicular to the base line c 6, will be the point required for describing the portion of the arch from 1 to e; the rest is plain by inspection.

Fig. 7. and Fig. 8. Pointed arches, of contrary flexion.

Fig. 9. Segments of an Ellipsis.

Fig. 10. Segments of the Parabola.

Fig. 11. Segments of the Hyperbola.

Fig. 12. Is the Quadratrix of Dinostratus.

Fig. 13. Segments of the Cycloid.

Fig. 14. Segments of the Catenarian Curve.

Fig. 15. and Fig. 16. Horizontal arches. The former is taken from the Convent of the Church of the bleffed Conception at Beja, where D. Duarte, the fon of John the First, the founder of Batalha, is interred. The latter is copied from a Gothic ruin at Evora, both in the Province of Alem-tejo, in Portugal.

<sup>\*</sup> The manner of forming this, and the subsequent pointed arches, is shewn by the lines and indexes of the respective figures.

Fig. 17. This arch, with its lateral and upper resisting arches, may be seen in West-minster Abbey, at the intersection of the nave and transept; a specimen of Gothic ingenuity, perhaps, not unworthy of notice.\*

All the above arches properly belong to that fpecies of Architecture called modern Norman Gothic; but there are fix of them, viz. Figures 9, 10, 11, 12, 13, and 14, the exiftence of which I have not been able to afcertain by antecedent examples. However, I am averse from supposing, that the Gothic Architects were strangers to Figures 9, 10, and 11. The arches that support the spire of the Church of St. Nicholas, at Newcastle, as well as those introduced by Sir Christopher Wren, in the spire of St. Dunstan in the East, are, I think, either of the parabolic, or of the hyperbolic species. These arches, whether recommended by ancient practice or not, possess many valuable attributes, which, together with their aptitude and fitness for Gothic Architecture, invited me to introduce them here.

Fig. 18. The Crefcent, or Moorifque arch.

Fig. 19. A Moorifque pointed arch.

- Fig. 20. A Moorifque pointed arch of contrary flexion. These three arches may be seen at the Puerta de los siete suclos, and at the Torre de las dos Hermanas.—Alhambra+
- Fig. 21. A window in the Arabian style of Architecture, sketched from the Royal Palace at Cintra, near Lisbon.

Fig. 22. Saxon arches.

- Fig. 23. The manner in which the Egyptians and Grecians closed the apertures of their quadrangular edifices.
- Fig. 24. The Semi-circular arch often used by the Romans, particularly in their rotund buildings.
- Fig. 25. The Dos d'Ane arch, used by the Egyptians, in the vaulting of the galleries, and sepulchral chambers of their pyramids. See Norden's Travels, plate 49 and 50.
- Fig. 26. A fragment of an Egyptian building at Carnac; fee Norden's Travels, Vol. I. where many remains of Egyptian edifices are shewn, with the sides inclining inwards, like the side of a bastion. Doors narrower at the top than at the bottom, as represented in this sigure, probably originated with these, or similar structures.
- Fig. 30. This is a non-defcript. I shall call it the ULNAR ARCH. It is generated by the arms of a man extended at full length, with his breast placed against a smooth wall, and marking, with a piece of chalk held in each hand, the revolution of the arms, moving inflexibly upwards, till the hands meet in

<sup>The fubtenfe of half this Arch, appears to be equal to the interval between the pallars, and is the weakest manner of furning a Gothic Arch. The ratio of manner in which he has guarded against the incumbent weight.

The Architect appears to have been seafable of this weakness, by the manner in which he has guarded against the incumbent weight.

The Architect appears to have been seafable of this weakness, by the manner in which he has guarded against the incumbent weight.

The Architect appears to have been seafable of this weakness, by the manner in which he has guarded against the incumbent weight.</sup> 

a point vertical with the crown of the head. In the chancel of Elkstone church, in the county of Gloucester, there is an arch of Saxon workmanship, apparently generated after this manner; but such arches should not be employed, I imagine, except in vaults where a number of ribs, springing from the sides, converge to one centre. The inverted angles at the top should then be concealed by a pendent orb richly ornamented.

How to find the Joints of any Arch formed of Segments of the Ellipsis, Parabola, or Hyperbola.

#### PROBLEM I. Of the Ellipsis. (Fig. 27. Plate I.)

From the focus point F, of the Ellipsis, draw as many right lines Fe, as there are joints required in the arch, and from G, the other focus point, draw the lines Ga, Ga, &c. which shall cut the former lines at the points c.c. Bifect the several angles a ce, and you have cb, the joints required.

#### PROBLEM II. Of the Parabola. (Fig. 28.)

From the point F, the focus of the Parabola, draw lines Fa, Fa, through as many points (c.c) in the arch as there are joints required, and from the points c.c, where these lines intersect the arch, draw ce, ce, &c. parallel to the axis of the section GD. The lines bc, bc, which bisect the several angles eca, will then be the true joints of the parabolic arch.

#### PROBLEM III. Of the Hyperbola. (Fig. 29.)

Let F and G, be the focus points of two opposite Hyperbolas given in position, from the focus G, draw lines through the several joints (c.c) of the arch, and through each of the points where they intersect the arch, as at c.c, &c. draw Fa, Fa, proceed, as in the two former problems, to bisect the angles a c G, and you will determine the joints required.

#### OF DOMES.

The above problems, especially the two latter, will be found of great use, wherever arches of the parabolic or hyperbolic kind are required; their properties are well known to every mathematician, and their utility in construction universally admitted, particularly in magnificent domes, and in situations where great weight is to be suffained without much lateral resistance: they have also the advantage

of requiring no centring, or at least not so much as the arches in common use \*. The claim of Sir Christopher Wren to the first rank in his profession, depends more, perhaps, upon his knowledge of the properties of these curves, than upon all his other attainments in architecture. Hence he was enabled to design and execute the superb cupola of St. Paul's, one of the noblest specimens of construction exifting, and the chef-d'œuvre of this Artist. This edifice, if deprived of that noble feature, would have very little remaining, besides the western portico, that any ingenious Architect of this age would be ambitious to own; and the church of St. Dunstan in the East would have few admirers, were it not for the geometrical ingenuity of its spire.

In that branch of architecture which relates to construction, Sir Christopher Wren may be confidered as equal, if not superior, to any Artist that has appeared in Europe these two hundred years; and what contributed not a little to give him this fuperiority, was his living in an age enlightened by the genius of a Newton, a Leibnitz, a Huyghens, &c. His mind was enlarged by the fublime discoveries of those great philosophers; he was one of the first geometricians of the age †; and if to his knowledge in mathematical science, he had united, in an equal degree, the true principles of the art of design, the world, for the first time, would have seen a complete Architect.

Since the death of that great man, the art of construction has been much neglected in England; and perhaps there are but very few recent specimens of it in Europe, of bold execution, besides the cupola of St. Genevieve at Paris. Yet, it is remarkable, that four of the greatest Architects that have appeared since the restoration of the arts, are chiefly indebted, for their fame in this art, to their knowledge of construction. These were Filippo Brunelleschit, Michael Angelo, Jacques Germain Soufflot §, and Sir Christopher Wren. To the first we owe that stupendous machine, the cupola of the church of S. Maria del Fiore, one of the most astonishing and difficult performances in Europe, being in magnitude not inferior to any thing of the kind, perhaps, the ancient world ever faw. The knowledge of construction gradually declined in Italy, by the death of the old Gothic Architects, and finally expired with Arnolfo Lappi, who began this church according to the Gothic rules; this prevented the completion of its cupola for upwards of a century, during which time, there was not to be found in Florence, nor throughout all Italy, any Architect who would undertake to finish it. This arduous task was reserved for the genius of Brunelleschi, who has rendered his name memorable in the history of

<sup>†</sup> In the Philosophical Transactions, No. 48, there is a folid figure, whose noted in Parentali generation is given by Sir Christopher Wren. Two opposite hyperboles are joined by the transverse axis, and through the centre there is a right line \$ See D'Argenville, Vies des Arch.

<sup>&</sup>quot; "The concave" of St. Paul's " was turned upon a centre, which was a judged necessary to keep the work even and true, though a cupola might be whall without a centre but this is observable, that the centre was laid without any tangent of the paintern." — Parentalis, p. 291.

And, in No. 33 of the Philosophical Transactions, he applies it to the grinding on that all. There are many more of his ingenious mathematical productions.

the arts, by the execution of that cupola; which Lappi, who began the work, would have considered as a simple operation, and would, as M. Felibien \* justly observes, have finished it, had he lived, with more ease than Brunelleschi, though he had been possessed of all the rules of the ancient Greek and Roman Architects.

But Filippo Brunelleschi, however great his merit may have been, has no title to the invention of the modern manner of building cupolas; for this we are indebted to Anthemius and Isidorus, the two celebrated Architects who, by order of the Emperor Justinian, built the present Santa Sophia†, at Constantinople; and to prevent its destruction by fire, as had already happened four several times, they employed no combustible materials in its fabrication. From this epoch we may date the origin of cupolas resting upon the four pillars of a square, which square is gradually formed into a circle by pendentives ‡; an idea fuggested by the figure of the cross represented in the plans of all Christian churches. The veneration in which this church has long been held, and the advantages which appeared to refult from its new mode of construction, are so great, that it has since been imitated by all the nations of Europe §. The Venetians were the first who set the example to the Italians, by erecting the church of Saint Mark, at Venice, upon a fimilar plan, about the year 973 |. Saint Mark's, together with the cathedral of Pila, built after the fame model at the commencement of the eleventh century, probably fupplied Brunelleschi with much information in the construction of the cupola of Santa Maria del Fiore, which last Michael Angelo appears to have copied, in the dome of that immense fabric St. Peter's at Rome.

Hence we are enabled to trace through Gothic vestiges, the origin of those stately Domes which crown the principal facred edifices of Europe; a mode of conftruction, of which there is not a fingle instance to be found among the remains of the buildings of ancient Rome, or of Greece; nor in those of the Egyptians; nor in the writings of Vitruvius.

The Abbé Winckelmann does not appear to have investigated this subject with his usual care, or he would not have attributed the above invention to the ancient Greeks, without being able to refer to a positive instance to establish the fact; his conclusion to this effect, rests upon the authority of a piece of sculpture which is upon an antique farcophagus found in the Villa Moirani T. But granting that this farcophagus bears the model of a temple, crowned with a fort of cupola, the original

<sup>\*</sup> Vic des Arch. par M. Felibien

A SONIE, SONIE, Sophie & fes trois filles les Saintes Foi, Efperance, de Charife, furent couronnées du martyre du temps d'Euméne, Evêque d'Alexandrie, qui tint le fiege fous les Empereurs Adrien & Antonin. L'Eglife de Sainte Sophie étoir la grande Baffique, ou l'Eglife Patriarchile de Conflaminople, batie le grande Baffique, ou l'Eglife Patriarchile de Conflaminople, batie d'Architeflure, par le Sieur Daviller. opme etor ta grande Bafilique, ou l'Eglife Patriarchale de Conflaminople, baire par le grund Conflamin & aind appellée, parce qu'elle étoit dédiée, non pas à Sainte Sophie, mais à la Sageffe Rétreulle. Sainte Sophie et aujourd'hui la principale mosfquée des Malometans à Conflaminople.—Vide Die, de Trevoux.

\$ Pendenire arre those parts in the angles, between the arches of the Account Plus III. Hilloire de la Disposition que les Chrétiens and James 2.

<sup>‡</sup> Pendentives are those parts in the angles, between the arches of the nave,
which spring from a point, and gradually advance in a concave direction to

receive the circular entablature of the cupola.-Or, if you suppose a circle

may, notwithstanding, have rested upon a circular base; for how is it possible to determine to the contrary, by any external reprefentation in painting or fculpture \*?

We may conceive some idea of the difficulty the moderns find in executing any bold design of this nature, by what we collect from the Life of M. Soufflot. This Artift, though one of the best that ever appeared in France, experienced more difficulty in constructing the cupola of the church of St. Genevieve, than in all the edifices that ever rose beneath his direction. Notwithstanding its weight, impulse, and resistance were ascertained, and the whole demonstrated to be perfectly fecure by two able mathematicians, (M. Ganthey and the Abbé Boffut) yet this was not sufficient to screen him from the malign criticism of cotemporary Artists, who maintained that the piers, upon which the cupola rested, were inadequate to fultain the incumbent weight. Time and experience, however, proved the reverle; and when he was on the point of completing his project, the detraction of his enemies affected him to fentibly, that it is generally supposed he died of a broken heart.

M. Soufflot appears to have been very intelligent in the Gothic, as well as in the Grecian style of Architecture: to obtain a knowledge of the former, he visited many of the best Gothic buildings in France, of which he made drawings, studied their construction, general proportions, vaults, &c. Hence he acquired much useful information, that materially affifted him in the defign and execution of the church of St. Genevieve. Sir William Chambers informs me, that when he was last in France, M. Soufflot shewed him a large collection of drawings he had made from those edifices; at the same time he expressed his admiration at the excellence of the general proportions he discovered in them, and the superior intelligence their Architects possessed in the laws of construction.

In fine, the noblest monuments of Florence, Rome, Paris, and London, bear ample testimony of the great abilities of the above Artists, and in no part of these monuments are their talents more conspicuous than in the construction of the Domes. It is much to be regretted then, that this superior branch of our art should become neglected or unknown, and that more attention is not bestowed on the found rules, and demonstrative principles, upon which the art of construction is founded t. The study of our Gothic edifices will be found, perhaps, to contribute very much to its restoration; but nothing can compensate for the want of a thorough knowledge of statics, and of conic sections.

<sup>\*</sup> The fact appears to be, that we are not warranted to conclude, from any entiting model, that the ancients uted any fuch termination to their edifices as a cupcla relling on a figure balement: their round temples, it is true, were often covered with a femicircular vault, to which they gave the name of \$750 dust, fach at that we now fee in the Patheon at Rome; but this form is very different from that which we have adopted from Santa Sophia, as may be feen by comparing the vaule of the Patheon at Rome with the dome of the Augulino' church in the fame city.

\*\*Hi It feens very unaccountable, that the generality of our late Architecture. For inflance, can an arch an idea expense of materials; if too little, it will fall; and for far my vauleties of the properties of the properties. The properties of the propertie

#### OF SPIRES.

HAVING taken a short review of the origin and progress of Domes, we shall next proceed to give a brief account of the origin of Spires; a fubject of all others relating to architecture the least understood. The observations I am about to offer on this fubject, are different from any yet presented to the Public; yet I trust to make it appear, that the real intention of Spires, which has never been fatiffactorily explained, is fuch as I am about to fubmit.

The Spire of Old Saint Paul's, fays Mr. Bentham, is one of the earliest we have any account of; it was finished in the year of our Lord 1222, and was in height 520 feet, according to Stowe's account \*. The Spire of Salisbury Church is 400 feet high †; and that of Strafburgh, built by the famous Irwin de Steinbach, is 450 feet ‡. No fettled proportion feems to have been observed in the dimenfions of Spires in general; fometimes the height did not exceed four times the diameter of the base, whilst, at other times, the ratio of the height, to the breadth taken at the base, was as eight to one. We have an example of the last-mentioned proportion, in the Spires built by Hugh Lebergin upon the towers of St. Nicase, the two largest of which were 50 feet high, upon a base of six feet.

Notwithstanding the amazing height to which many Spires were carried, they were constructed so exceedingly slight, that we should be apt to conclude, on reasoning from theory, that they would be inadequate to sustain their own weight. The Spire of Salisbury, for instance, is but seven inches thick; and that of Batalha is about the same thickness, independent of the embossed work, though almost a fourth part of its superficies is perforated. Great care must consequently have been taken, in felecting the materials employed in conftructing fuch light Spires, especially as they are, I believe, in general connected without the aid of iron cramps; for this metal, when exposed to air or moisture, is subject to contract rust, which in time will shiver in pieces as much of the block as it comes in contact with. I am informed, that the stones of the Spire of Batalha are keyed together, by means of dove-tail wedges of pine-wood §: however that may be, it is pretty certain, that the ancients, upon fimilar occasions, have adopted this expedient. Alberti mentions his having found wedges or cramps of wood in the ancient Roman buildings; and M. le Roy has observed them in the ruins of an ancient temple in the district of Athens. In the ancient Temple of Girgenti in

Wren's Parentalia, p. 274-

<sup>†</sup> Ibid. p. 305. ‡ Argenville, Vies des Arch. Difc. p. 33, tom. 1.

<sup>§</sup> This circumstance I was informed of after leaving Batalha, by an ingenious gentleman in the Portuguese service (Col. Audinot), who, from his fituation, had frequent opportunities of victing that building.

Sicily, there were found wedges of wood, in good prefervation, after a space of more than two thousand years \*. Cramps of copper were also used by the ancients in their buildings, which, according to the account of Father Montfaucon, were tempered to an extraordinary hardness †.

With respect to the origin of Spires, it appears very unaccountable, that neither history nor tradition have preferved the least remembrance of it. There must, nevertheless, have been some specious motive for building them; for we can hardly conceive, that appendages so expensive, and difficult of execution, were merely the refult of caprice. If we examine the uses to which the facred edifices wherein they are employed were appropriated in the 12th century, we shall discover a rational cause for crowning them with Spires: namely, the custom of burying in churches, which about this time appears to have become general all over Europe ‡. Now, in consequence of this custom, there were united, in the same fabrick, a cemetery and a church §; it was highly proper, therefore, to build every structure intended for this double purpose, in a style of architecture characteristic of its twofold destination. Impressed with these sentiments, the Architects of those times would naturally look back for precedents of a fimilar nature among the nations of antiquity; the hiftorians of these nations, as well as the remains of their edifices, would have shewn them, that it was invariably the practice of all civilized people, who believed in the immortality of the foul, and did not hold a republican form of government ||, to raise lofty pyramids over their cemeteries or places of sepulture. The Gothic Architects, in like manner, have adopted that figure to characterise their cemeteries, and, at the same time, preserved the figure of the cross in their ground plan, the better to denote a Christian temple.

Hence the origin of Spires, and the confequent introduction of pinnacles, pyramidal or pointed arches, angular ornaments, &c.; in short, every vertical part of the whole superstructure was henceforth terminated in a point. Indeed it could not be otherwise, consistent with the true principles of design, which invariably

<sup>\*</sup> Remarques fur l'Architecture de l'ancien Temple de Girgenti en Sicile, par M. Winckelmann.

<sup>†</sup> Italian Diary, p. 54

<sup># &</sup>quot; After the crufado, King Henry built his church, but not by a model

<sup>&</sup>quot;we'll digefted at firft; for, I think the chapels without the ailles were an after-thought, the buttreffes between the chapels remaining being useles,

<sup>&</sup>quot;if they had been raifed together with them; and the King having opened the East-end for St. Mury's Chapel, he thought to make more chapels for

<sup>&</sup>quot;fepulture; which was very acceptable to the Monks, after licers from Rome to bury in churches, a cuftom not used before."

Wren's Parentalia, p. 297.

<sup>§</sup> Chriftians, at all times, have had a great defire to be buried near the Martyrs, and this introduced fo many burying-places in the churches; though the cultom of burying no where but without the towns was long obferred. The veneration for relies, and a diffinit belief of the refurredition, had totally taken from the Christians the horror which the ancients, even the Ifraelites themselves, had for dead bodies and burying-places.

Les Mœurs des Chrétiens, par l'Abbé Fleury.

He that looks for urns and old fepulchral relics, must not feek them in the ruins of temples, where no religion anciently placed them. These were found in a field, according to ancient custom, in noble or private burial; the old practice of the Canaanites, the family of Abraham, and the burying-place practice, to bury by highways, whereby their monuments were under-eyememorials of themselves, and mementos of mortality unto living passengers; whom the epitaphs of great ones were fain to beg to ftay, and look upon them. A language though fometimes used, not so proper in church-inseriptions. The fensible rhetoric of the dead, to exemplarity of good life, first admitted the bones of pious men and martyrs within church-walls; which in fucceeding ages crept into promiscuous practice. While Constanting was peculiarly favoured to be admitted into the church-porch; and the first thus buried in England was in the days of Cuthred.

Browne's Hydriotaphia, p. 27. The laws of a republic, which admit but of little inequality in the ditions of men, would not permit too great a difference in the honours paid

prescribe an harmony between the several parts; and also between these parts and the general configuration; from the whole of which refults an unity of appearance, the most certain criterion of its excellence \*.

The reason assigned for the origin of Spires will also apply to the pyramids, or round towers, to be found at this day near many of the old churches in Ireland; for it is observable, that, at the time these towers were built, the Architects of that country were unacquainted with the art of raising a Spire over the pillars, at the interfection of the nave and transept. They had recourse, therefore, to an easier but less scientific expedient, by constructing, upon solid bases, those round pyramids which always terminated like the Egyptian obelifks. And notwithstanding all the learned conjectures that have been made respecting the use of these pyramids, we may reasonably conclude, that they were intended to denote cemeteries.

We may conceive how far the Christians of the 13th century were impressed with the propriety of building pyramids over their cemeteries, from the immense elevation they gave to some of them. That of Old St. Paul's, for instance, was loftier than any of the pyramids of Egypt †. And it is worthy of remark, that they were introduced about the time Science began to revive, and recover its long-loft energy; hence they may not be improperly confidered, as fo many auspicious monuments of the rising greatness, and returning wisdom of Europe.

When we consider the stupendous monuments of Egyptian power which still exist, we cannot avoid reflecting on the vanity of their founders, and pitying the mistaken system of theology that gave rise to them. Yet if we examine our own country, we shall find more pyramids, even in one province, than exist at this day in all Memphis and Sacara. From this circumstance, one might be induced to fuppose, that the origin of Spires amongst us, proceeded in some degree from Egyptian ideas grafted upon Christian principles.

Amongst the Egyptians, the pyramid was held to be facred ‡; by it they expressed the origin of all things. They placed it over their cemeteries, as the Christians do §, to testify the lively and exalted sentiments they entertained of the immortality of the foul. Its form, which is like that of a flame of fire ||, (whence it is supposed to derive its origin) is typical of the divine spirit of the deceased, afcending, after its separation from the body, to the divine mansions of repose.

Such, we are given to understand, were partly the motives that induced the Egyptians to adopt the pyramid in their fepultures; that figure, however, possesses

<sup>\*</sup> Omnis porro pulchritudinis forma unitas eft.-St. Augustin.

 $<sup>\</sup>S$  " Le lieu où font les pyramides, dit le P. Vanlleb, qui fit le voyage d' † The perpendicular height of the great pyramids 18,421 feet, which is 3 feet lefs than the altitude of the Sprie of Old St. Paul's, according to Camden's "exercise than the altitude of the Sprie of Old St. Paul's, according to Camden's "exercise than the altitude of the Sprie of Old St. Paul's, according to Camden's "exercise less infloriens Arabes nous apprennent que cette ville étoit batie account.— Utile Graveu's Pyramidey alt visable voir d'ans l'endroit où font les pyramides, & visa-ivis le vuex Caire."

‡ The Egyptians called their fepulures eternal manifons; whereas they gave Encyclopedie.

their palaces and houses the title of caravansaries, on account of the short time we fojourn in this life, in comparison to the time our remains repose in the grave.

<sup>[</sup> Sandys's Travels, p. 127. Greaves's Pyramidographia, p. 69.

many interesting properties, which, independent of these motives, might have recommended it to their notice. Experience has evinced, that in point of durability the pyramid is superior to all other figures; it is also a form the most consonant with the principles of opticks; as, on account of fome natural imperfections in the vifual organ, it is continually obtruding itself on our fenses. For instance, a long range of buildings, viewed from either extremity, will appear to incline to a point. A long avenue, a road, or a canal running between two parallel banks, have the same effect. To which we may add, that the pyramid has the property of conveying an idea of elevation beyond the actual limits of the object. Whether these properties were taken into consideration by the Egyptian and Gothic Architects or not, it must be confessed, they have chosen a form that plays very strongly upon the fenses, and from it their works derive no inconsiderable part of that effect which fills the mind with ideas of grandeur.

The moderns, as we have already observed, still continue to use pyramids in their churches and sepultures; although no other reason is assigned for this practice, but that it was the custom of our forefathers. We should recollect, however, that Spires were graceful, and well adapted to the general formation of their edifices; whereas in ours they are quite the reverse. By attempting to imitate the antique style of architecture in our churches, we have fallen into a compound one, which is neither Grecian nor Gothic, but rather a piece of patchwork, made up of the remnants of three different nations. Italy has furnished the ground plan \*, Greece the portico, and France the Spire †. The coalition of these heterogeneous parts, cannot with propriety be called Grecian architecture; yet that is the appellation generally given to it. We must allow, however, that there are some churches amongst us, executed in this mixt style, that are not undeferving of praise.

<sup>&</sup>quot; churches, and others were fuffered to decay, by the false opinions of the

<sup>\*</sup> The Latin croft is the form ufually given to the plans of our churches.

† The Gothic architecture, with fighres and pointed arches, is generally dappeded to have originated with the Normans, who, during the eleventh and twelfth centuries, appear to have been great church builders. "The Nor "the times would allow a and not only fuperior to the houses or private persons, "mans," (asy the learned Abbé Yleury, what ruined a great number of a churches or have not been and the private persons, the standard of the world, which was expected exactly in the year of our Lord, One "Thoufund. When people faw the world full continue after this fast year," he we churches every where began to be built, in the most magnifecture fly when the private persons, and not only fuperior to the houses of private persons, and not only fuperior to the houses of private persons, and not only fuperior to the houses of private persons, and not only fuperior to the houses of private persons, and not only fuperior to the houses of private persons, and not only fuperior to the houses of private persons, and not only fuperior to the houses of private persons, and not only fuperior to the houses of private persons, and not only fuperior to the houses of private persons, and not only fuperior to the houses of private persons, and not only fuperior to the houses of private persons, and not only fuperior to the houses of private persons, and not only fuperior to the houses of private persons, and not only fuperior to the houses of private persons, and not only fuperior to the houses of private persons.

#### OF THE GENERAL PROPORTIONS OF

## GOTHIC CHURCHES.

FROM the observations which at various times I have made on these churches, I am led to suppose that the general configuration, internally, was usually designed agreeable to some definite rules, or proportions; notwithstanding the component quantities were not invariably distributed, in every edifice, in the same comparative degree of relation, but were modified according to local circumstances, or the Architect's conception of optical effects. To convey some idea of the nature of these proportions, I shall here submit the result of my inquiry, concerning the general interior distribution of the Church of Batalha.

The module, or *datum*, taken in this inftance, is the breadth of the church internally, which we shall suppose equal to AB. (see Fig. I. Transverse section of the Church of Batalha.) Form a square AEFB, whose side is equal to AB, and within this square inscribe a circle; now CD, which is equal to the side of a heptagon inscribed within the given circle, determines the latitudinal distance between the axis of the pillars, and consequently ascertains the breadth of the nave and ailes. 2dly. From the points C and D, draw CM and DM, parallel to the sides of the square, and draw the diagonals AF and BE. The magnitude of the pillar being predetermined, according to the laws of staticks, c must be its extremity; let o be the axis; form the pillars cdef, and you will ascertain the distance (0,0) between the axis of the several pillars placed along the nave.

In proportioning the elevated parts, the fame datum is taken as before. The height of the clufter columns CD, (fee the Transverse section of the Church) is equal to the breadth of the church. The height of the columns of the arcade FE, is two thirds of CD. The radius with which each side of the arch over the nave is described, is two thirds of the subtense of its base; the several dotted lines sufficiently explain the rest.

In order to shew that the above proportions coincide with those of the human body, we have given in the section the representation of a human figure, whose height is supposed to be equal to the superior part of the cluster columns CD. According to the fize of this sigure, the hands, if extended, would touch the two side walls of the church. The vertex of the arch will be found as far above the head, as the hand can reach when elevated; that is, a cubit, or one fourth of the whole height.

The procedure of the Ancients, in proportioning their edifices, was not diffimilar to the above, if we are to credit what has been afferted by various writers, who have treated on the fymmetry of buildings. The Ionians, as Vitruvius informs us, modelled the columns of the Temple of Apollo Panionios after the fame archetype. From the *Ulnar* Arch (reprefented in Fig. 30, Plate I.) it may be inferred, that the Saxons also have had recourse, in some degree, to the like expedient. I pretend not to decide on the propriety or impropriety of such analogy: however that may be, it is very remarkable, that Architects so locally remote, and in such distant ages, as those of the *Ionians*, *Saxons*, and *Normans*, should have proceeded so nearly alike, in attempting to affimilate the proportions of their buildings to those of the human frame.

Among the various structures of the Ancients, which have been transmitted to us, there is none that approaches nearer to the form of a Gothic Church, than the Egyptian Hall, described by Vitruvius (B.vi. c.vi.); a section of which we have given; at Fig. 2, under the Transverse section of the Church of Batalha. The similitude of which we speak is obvious at the first view; but, were the Hall executed entirely in stone, the resemblance would be still more apparent. The arches over the ailes would require lateral refiftance proportionate to their impulse; buttreffes would necessarily follow, as at HK; the vault of the nave would also require an adequate resistance; the nature of the design would immediately suggest the idea of reclined fulcra, extending from the walls of the ailes to those of the nave, as at LM. Now, fince materials of this fort could not be eafily obtained to form each fulcrum of one entire piece, the conjunction of different stones, in the form of an arch, is the only support that could with propriety be applied; we should call it a flying buttress. It is true, that a folid wall of a triangular form would answer that end, as is feen in the Temple of Peace at Rome; but the superiority of the Gothic manner is evidently preferable in every respect. In fine, were an Egyptian Hall entirely constructed of the simple produce of the quarry, the arches and buttresses consequently introduced, together with the pillars, windows, ailes, and the uncovered paffages over the ailes, would bear a firsking resemblance to the body of a Gothic Church.

## OF DOORS.

THE principal entrances of Gothic Churches are generally ornamented in a very magnificent manner; the Door is usually placed within a large porch, which porch diminishes, as it recedes, in a rectilinear direction; the sides of it are often adorned with an affemblage of slender columns, and mouldings of various forts. Here are

also seen statues of Kings, Popes, Saints, and Martyrs, with their respective emblems, canopies, pedestals, &cc. Frequently we find as many entrances in the west front, as there are porticos in the Church; but the centre Door, which is generally the largest, is seldom opened but on days of procession, or for the reception of some Dignitary of the Church.

How different the practice of the Gothic Architects, in this respect, from that of the Ancients! The latter made the entrances of their Temples large, and approached them by a flight of elevated steps. The former, on the contrary, made the Doors of their Churches comparatively small, and on a level with the furrounding plain. Sometimes, indeed, we even find steps for descending into these Churches, which some imagine to have been appended in consequence of an accumulation of the adjacent earth; but it is evident that in general these steps made a part of the original design. Some instances indeed of elevated entrances to Gothic Churches are to be met with; but they are such, I imagine, as necessarily arise from the obliquity of their situation.

## OF WINDOWS.

THERE is no part of Gothic Architecture which admits of more variety, or is fusceptible of a greater display of taste and beauty, than the Windows; the manner in which they are usually formed is as follows\*. The breadth of the aperture is divided into three, five, or seven equal parts, with a mullion between each. When the Window is of any considerable height, a transom or cross mullion is placed in the middle of it, for the security of the work. The space between the spring of the arch and the summit of the aperture is filled with tracery work, composed chiefly of tre-foils and quatre-foils, and these are sometimes subdivided into other different sigures. In all manner of tracery work, whether simple or complicated, we find that the intersticial vacuities tend to the sigure of a plain or curvilinear triangle, and that their circumscribing lines are generated by geometrical rules. The most beautiful fort of tracery, in my opinion, is that in which the several perforations approach to an equal magnitude.

• "The Windows of our Gothic buildings in the reign of Henry the Second were long, narrow, flnarp-pointed, and ufually decorated on the inside and outside with finall marble flaffus: the order and disposition of the windows waried in fome measure according to the flories of which the building confilled; in one of three flories, the upermost had commonly three windows within the compais of every arch, the centre one being higher than those on each field; the middle tire or flory had two within the fame (space; and the lowest only one window, usually divided by a pillar or roullion, and often ornamented on the top with a trefoil, fingle rote, or fome such simple decoration, which probably gave the

hint for branching out the whole head into a variety of tracery and foliage, when the windows came afterwards to be enlarged. The use of painting and flained glafs, in our churches, is thought to have begun about this time. This kind of ornament, as it diminished the light, induced the necessity of making an alteration in the windows, either by increasing the number, or enlarging their proportions; though a gloominess, rather than over-much light, forms more proper for such screed edifices, and "better calculated for recollecting the "thoughts, and fairing prious affections."

Bentham's Ely, p. 39.

The fplay of every Window is in proportion to the thickness of the wall: a large fplay appears to have been much esteemed; and when the wall is not of dimensions sufficient to admit of it, then a few mouldings are appended to the sides of the archivolt, resting upon a string or belt, or esse upon a fort of corbel, formed into a grotesque head. The apron, or sill, has nearly the same degree of obliquity as the sides of the window; at the bottom it projects a few inches, where there is a little channel to prevent the rain from recoiling on the wall.

The piers, between the Windows in Churches, are very narrow, in consequence of the breadth of the apertures\*; and the great splay of their architraves, together with the half pillars of the ailes, occupy nearly the whole of the wall; fo that no plain space remains for the reception of pictures. The Ancients, on the contrary, made the piers of their edifices large, and the apertures comparatively fmall, which is still considered as the grand style in Grecian Architecture; as the magnitude of the piers gave them an opportunity of embellishing the inside with pictures and statues. The Gothic Architects, however, have amply compensated for this deficiency, by making the Windows, instead of the walls, the depository of their pictures; and thus, by commuting the canvass for the glass, they obtained one important advantage, that is, a natural back light, a light which has the peculiar property of giving every production of the pencil the greatest poslible degree of force and brilliancy. The various colours of these Windows form a happy contrast with the simple white or gray cast of the structure; and, as they obscure the Church in some degree, they diffuse an appearance of solemnity, well adapted to the majesty of the place.

At Batalha, about five o'clock in the evening, when the fun is opposite the great Western Window, the effect of its painted glass is most enchanting. At this hour the Fathers usually assemble in the choir to chant the Evening Service, whilst the myriads of variegated rays, which emanate from this beautiful Window, resemble so many beams of glory playing around them.

It is in vain that we attempt to reftore Gothic Architecture, without the admiffion of ftained glafs; efpecially in Churches, where a degree of obscurity is perfectly consonant with the tombs, inscriptions, and other relicks of mortality we behold on every side. If to these we add the solemnity of the Divine Service, the awful silence, and pensive deportment of the congregation, we must admit the propriety of accompanying scenes of this nature with a solemn shade, since it is allowed by all to be more productive of sublime ideas than light. "Our great poet (to speak in the words of a competent judge of these matters) was convinced of this; and indeed so full was he of this idea, so entirely possessed with the power of a well-

<sup>\*</sup> In the reign of Edward the First, the Windows were greatly enlarged, and divided into feveral lights by flone mullions, running into various ramifications above, and dividing the head into numerous compartments of different forms, above, and dividing the head into mumerous compartments of different forms, as leaves, open flowers, and other fancialti flanes, and more particularly the feltors, and other historical repreferations, made a most feltonial and glorious great Eastern and Wellern Windows (which became fashionable about this papearance. Bentham's Elys p. 40.

managed darkness, that in describing the appearance of the Deity, amidst that profusion of magnificent images, which the grandeur of his subject provokes him to pour out upon every side, he is far from forgetting the obscurity which surrounds the most incomprehensible of all beings, but \*"

" ----- with the majesty of darkness round

" Circles his throne."

## OF NICHES.

NICHES were used but sparingly by the Gothic Architects. In some of the earliest structures we trace but sew instances of them, and these sew are chiefly confined to the exterior of the edifice. In the Church of Alcobaça, one of the most ancient in the Gothic style, I do not recollect to have seen a Niche, or a Statue, that was coeval with the original fabrication; and I may add the same of the interior of the Church of Batalha: a strong evidence that statues in those days constituted but a small part of the ornaments of Churches. The plan of these Niches is generally a semi-hexagon; the head terminating with a projecting canopy.

### PILLARS.

The grand effects fo univerfally admired in Gothic Cathedrals, are, I believe, to be attributed to the artful distribution of the Pillars, with their concomitant scenery. Their magnitude, and relative situations, are proportionate to the dimensions of the edifice, and can only be ascertained with precision by the laws of staticks and opticks. The cluster of little shafts, and the intervening mouldings, on the superfice of each Pillar, give them an appearance of instability, and seem superfluous at first sight; but, on tracing their continuity upwards, we find them branching out in various directions, in the ribs of the nave and alle vaults, and converted into archivolts in the sides of the nave. The manner in which these Pillars are placed is rather singular, but well calculated for effect and resistance: the side of each forms an angle of 45 degrees with the collateral wall, by which their repulsion is greater than if placed parallel, in the same ratio the diagonal of a square bears to its side.

<sup>\*</sup> Burke on the Sublime and Beautiful.

If the Architects of these Cathedrals were so illiterate as they are represented, it is associations how they could have ascertained so accurately the maximum of their pillars, arches, buttresses, &c. whilst the Moderns, with all their supposed improvements in this art, and the affistance they evidently derive from algebra, have not yet produced any examples in construction equal to what the former have left us.

It is not to be fupposed, indeed, that all the Architects of those times were competent to such an arduous task; therefore the illiterate ones, whose talents were limited to the practice of their art, availed themselves of the excellencies of some approved model, and thus obviated all calculation respecting the ratio of force and resistance. This in some measure accounts for the similarity we find in the breadth of many of these edifices, both in this country, and on the continent. We could adduce many instances in testimony of this fact, if we admit the relation of their Historians; but, for brevity's sake, I shall only quote the structures measured by myself, which differ but very little in breadth, as appears by the following comparative estimate:

	Feet	Inch.	1	Feet	Inch,
Batalha	72	4	Ely Cathedral	72	9
Alcobaça	72	0	Westminster Abbey	72	8

In the construction of many of our best Gothic edifices, we find but few large stones, whence some writers have imagined that their Architects were unacquainted with mechanism, but I believe it proceeds partly from the nature of the quarry, and partly from their mode of building. The splendor of their works confifted in arches; in the fabrication of which, materials of a moderate fize are to be preferred, because large stones press too heavy on the centres, and require much time and labour in forming their intrados to the curvature of the vault. Where these objections did not apply, they often used blocks which no human force could raife, independent of mechanical aid. Indeed I may venture to affert, that there is not in Europe, a Gothic Church, or Cathedral of note, wherein three or four of the mechanical powers have not been used. It is obvious that their arches, particularly those of the naves and ailes, are supported on the principles of the Statistical Balance; each stone of which they are composed is a frustum of a Wedge. Pullies were used in raising their cornices, pinnacles, &c. and the Lever was necessarily employed in moving and fixing them. Here we find the application of the Balance, the Wedge, the Pulley, and the Lever, which four powers would have been fufficient to raife either of the feven celebrated structures of antiquity.

How far they were conversant with the theory of these powers, is a point not easy to decide. The experience of past ages has evinced what great things might be effected in mechanicks, independent of scientific calculations. The obelisks, columns, and enormous granite blocks of the Egyptians, were transported,

as we are affured, without any precognition of the complicated movements of Wheels and Pullies. Joze Zabaglio, of Rome, never received any instructions, he could not even write or read, yet, by the force of his genius alone, he invented machines which, though fimple in appearance, produced most furprising effects.

In our own days, we have many striking instances of similar inventive faculties in men unaffifted by erudition. An obscure workman, of the name of Cashman, designed and executed for the Dublin Society (about eight years ago) a flight of winding stairs, ascending in the midst of a quadrangular hall, without any apparent support whatever, contrary to all preceding examples.

The Equestrian Statue of Joseph I. King of Portugal, one of the most magnificent works of the kind in Europe, was entirely cast by a person of the name of Bartholemeu da Costa, who, as I am credibly informed, is not in the least indebted to the theory of any art or science. This ingenious man, after casting the above Statue, transported it from the foundery to the great square of Lisbon, by machines of his own contrivance, and afterwards raised it on its lofty pedestal, to the admiration of all the Mathematicians of that country.

## FRAGMENTS OF GOTHIC ARCHITECTURE.

#### PLATE II.

- 1. A Wall of irregular flones.
- 2. A Wall of afhlar work.
- 3. Manner of ornamenting the superfice of a wall, as feen in the interior of Westminster Abbey.
- 4. Ornaments fometimes used in tombs, and on the fuperfice of walls.
- 5. Ornaments copied from an ancient gothic wall at Evora.
- 6. Manner of decorating a gothic Sacrarium, from the original at Beja.
- 7. A plain embattled top,
- 8. An embattled top with mouldings.
- 9. 10. 11. and 12. Various forts of embattled tops.
- 13. A Buttrefs.
- 14. An arched buttrefs.
- 15. A Niche.
- 16. Various forts of gothic ornaments.
- 17. A Teffellated pavement.

- 18. An impost corbel.
- 19. A Window cill.
- 20. A Fountain, from the original in the royal cloyfter of Batalha. (fee the letter A in the general plan.)
- 21. A Patera.
- 22. A Pinnacle
- 23. A Water-fpout.
- 24. A Pillaster.
- 25. A Reading-defk, used in choirs.
- 26. Top of a water pipe.
- 27. A Trefoil.
- 28. A Quatrefoil.
- 29. A Capital.
- 30. A Pulpit, from the original in the transept of Batalha.
- 31. A Mural Pedeftal.
- 32. Machicolations.
- 33. A Loop-hole.

11

of church.

Lower part.

Upper part.

21 and 22. Double Belts in the fouth front. 23. 24. and 25. Belts to the rere of the chapels.

26. Copings to the buttreffes of royal cloyster.

27. Vertex Rib of the vaults - In collateral chapels. 28. A Diagonal Rib of the above chapel.

29 and 30. Ribs of the vaults in the maufoleum of the

16 and 17. --

18 and 19. ---

34. An Emblem often feen about high altars.

35. An Infulated pedeftal.

36. An Affemblage of masons tools of the 13th century, taken from ancient fculptures, and

|| Fig.

37. Characters which I found engraved on different parts of the Church of Batalha. I believe these characters have been affigned by the Wardens of the fabrick to the workmen, in order to diftinguish their respective performances.

## FRAGMENTS OF GOTHIC ARCHITECTURE FROM VARIOUS PARTS OF BATALHA.

#### PLATE III.

G.  Cornice of the maufoleum of the founder—Upper part.  — in the north front of church.  — in the weft front of church—Upper part.  — in royal cloyfter.  — to the buttreffes of royal cloyfter.  — in the maufoleum of King Emanuel—Externally.  — of the buttreffes of centre chapel. (fee the letter G in the general plan.)  A Cornice with arched modillions—South front of Church.  and to. Cornices of the buttreffes of chapter-houfe.  A Cornice in the maufoleum of King Emanuel.  and 13. Facias of the circular towers in the maufoleum of King Emanuel.	<ul> <li>Fig.</li> <li>31. One of the principal Ribs in the vault of chapter-house.</li> <li>32. Panels of the buttreffes of west front.</li> <li>33. Plan of the Mullions of the large windows over chapels (see the elevation of the chancel of Batalha). N.B. The transoms of the windows are moulded in the same manner as the mullions.</li> <li>34. One of the Mullions of large window—West front of the Church.</li> <li>35. The principal Mullion of the above window.</li> <li>36. Mullion of the upper windows—North front—Upper part.</li> <li>37. — in the lower windows of north front.</li> <li>38. Archivost of the circular windows of chapter-house.</li> <li>39. Section of a water channel in the roof of the mau-</li> </ul>
and re. Single Relies to the buttreffes of west front	foleum of the founder.

- in fouth front of church-

— to the buttreffes of the chapels.

- in north front of church-

40. Baje and Plinth of the columns at the entrance of

chapter-house.

41. Base of the windows of chapter-house-near the entrance.

42. Base to the external pillars of the mausoleum of King Emanuel. 43. Base and Plinth to the internal columns of the

above maufoleum. to the pillars of the maufoleum

of King John I.

45. Base to the column of the transept chapels.

46 --- to the columns of the windows-North front.

### RELIGIOUS CUSTOMS OF THE XIII CENTURY.

#### PLATE IV.

1. A Crucifix.

2. Emblem of Religion.

3. Chalice and Patine.

4. A Pax.

5. A Mural Crown.

6. A Crown of Thorns.

7. A Chaplet of Rofes.

8. A Celeftial Crown.

9. Emblem of the Holy Ghost.

10. Palm and Olive Branch.

11. A Cherub.

12. A Star.

13. A Star of another form.

14. A Boate.

15. An Ewer.

16. A Dominican Friar.

17. A Nun.

18. A Cenfer.

19. A Phial.

20. A Madona. 21. A Labarum.

22. Symbol of Christianity.

23. Symbol of the Trinity.

24. A Latin Cross.

25. A Cross of the Order of Christ.

26. A Wavy Cross.

27. A Greek Crofs.

28. A Raguled Crofs.

29. A Strepitum-Ufed in waking the Friars.

30. An Hour Glass.

31. A Memento Mori.

32. A Discipline.

33. A Lamp.

34. A Bell.

35. A Miffal, Rofary, and Cufhion.

36. A Pfalter.

37. Emblem of Saint Peter.

38. The Baptist's Reed.

39. A Candelabrum. 40. A Wax Taper.

41. A Candleftick.

42. A Seat. 43. A Breviary.

44. A Chair.

45. An Horizontal Sun-dial.

46. A Lantern.

47. A Pix.

48. A Flagon.

49. A Folding Chair.

50. A Vertical Sun-dial.

51. A Shield.

52. An Altar and Baldachin.

53. A Mitre.

54. A Tiara.

55. A Cardinal's Hat.

56. A Crozier.

57. A Pastoral Staff.

58. A Water-pot.

59. A Tomb with a Figure of a Warrior.

60. A Tumulus.

61. A Cryptical Tomb Stone.

62. A Coffin.

63. A Font and Sprinkler.

64. A Confessional.

65. Holy Lamb.

66. A Coin.

67. Symbol of the four Evangelists.

68. An Oratory.

69. A Mural Tomb.

70. A Canopy.

71. A Flagration.

72. A Sacrarium.

73. A Scal.

74. A Harp.

75. A Shrine.

77. A Proceffion.

78. The five Colours principally made use of in the Church Vestments, viz. white, red, violet, green,

79. An Ancient Gothic Infcription found at Beja \*.

80. A Rota or Wheel, used in the Portals of Nunneries.

81. A Friar's Cell.

82. The word Miffal illuminated.

83. The Modern Norman Gothic Alphabet.

<sup>\*</sup> This Inscription is read thus: Miserere met Deus, secundum magnam misericordiam team - Pfalms, LL v 1.

# DESCRIPTION OF THE CHURCHES OF THE PRIMITIVE CHRISTIANS\*.

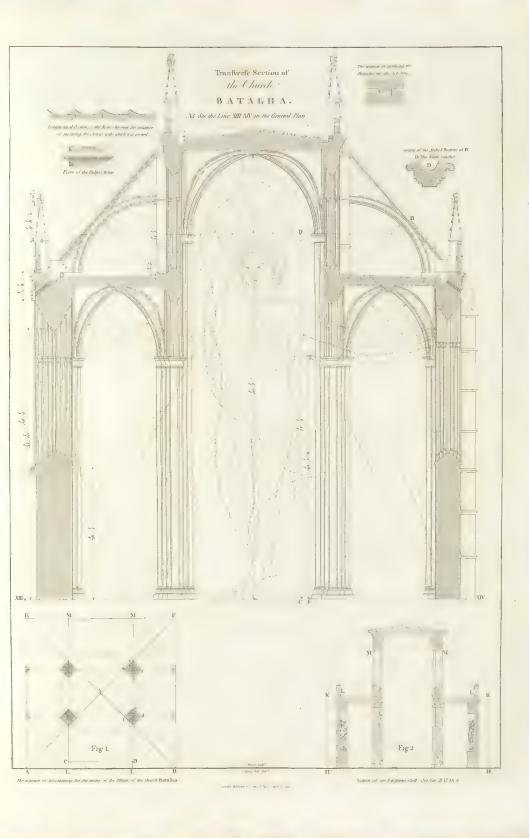
"The Church was entirely feparated from all profane buildings, at a diffance from noife, and furrounded on every fide with courts, gardens, or buildings dependent on the Church, all flut up within an enclofure of walls. First there was a gate or entry which led into a periftyle, that is to fay, a square court, environed with covered galleries, supported by columns like the cloysters of Monasteries. The poor remained under these galleries, and were allowed to beg at the Church-door. In the middle of the court was one or more sountains, to wash the hands and face before prayer: the holy water-vases were now introduced. At the farther end, was a double porch leading into the Saloon or Basilick, which was the body of the Church. I say this porch was double, because part of it was without the Church, and the other within, which the Greeks called Narthex. Near the Basilick, on the outside, were at least two buildings, the Baptistery at the entrance, and the Sacritty or Treasury, called Secretarium, or Diaconicum, at the farther end; the latter was sometimes double. Along the sides of the Church, were often chambers or cells, for the convenience of such as wished to pray or meditate in private; we should call them Chapels."

"The Bafilick was divided into three parts, proportionable to its breadth, by two files of pillars, which fupported galleries on each fide: in the middle was the nave, as we fill fee in all the old Churches. At the eaftern end was the altar, behind which was the Preflytery or Sanchary, afterwards called the Transfep of the Church. Its plan was femicircular, and finished at top like a niche; therefore called in Latin Concha, that is, a shell; the recess was called in Greek, the Abstr. The Christians, perhaps, at first wanted to imitate the fitting of the Santhedrim of the Juwes, where the Judges were feated in a semicircle, and the Prefloct in the middle. The Bishop held the same place in the Prespotery, having the Priesson each side of him. His seat was called Abstract in Greeks, and was more elevated than the others. All the seats together were called in Greek Synthronos, in Latin Consess. Sometimes this place was called Tribunal; in Greek Berna, because it resembled the tribunals of the Secular Judges in the Basslicks, the Bishop being as it were the magistrate, and the Priess his counsellors. This tribunal was raised, and the Bishop came down from it to approach the altar. The front of the altar was enclosed by an open basslustade, beyond which was another separate place in the nave for the Chanters or Singers, which on this account was called the Choir, in Greek Choras, or Chancel, from the Latin word Cancelli. The Chanters were only simple Clerics appointed to that function. At the entrance of the Choir was the Ambo, that is, a raised tribune, with steps up to it on both sides, serving to read the public lessors since it is called the publit, desk, or lobby. If there were but one Ambo, it was in the middle; but sometimes there were two, that the altar might not be hid. On the right-hand of the Bishop, and consequently on the less-there were two, that the altar might not be hid.

"The altar was a table of marble or porphyry: fometimes it was of maffy filver, or even of gold, enriched with precious flones, for nothing was thought too coffly to bear the Holy of Holies. The ceremonies fill ufed in the confectation of altars fufficiently exprefs this refpect. It was fometimes, however, only of wood, fupported on four feet or columns, rich in proportion, and placed over the tomb of fome Martyr; for it was cuftomary to affemble, or build Churches by their tombs; or, at leaft, their bodies were translated to the places where the Churches were erected. Hence, at length it became a rule to confectate no altar without placing fome relics under it. Their fepulchres of the Martyrs, were called their Memories or Confellons: they were under ground, and the way down to them was before the altar. This remained uncovered, except during the time of the facrifice, only covered with a carpet, and nothing was placed immediately on it. Afterwards it was furrounded with four pillars, fupporting a kind of tabernacle which covered the whole altar, and was called Ciborium, on account of its flape, which was that of a cup reverfed."

\* Vide Les Mocurs des Chrêtiens, par M. L'Abbé Fleury, § xxxv.

END OF THE INTRODUCTION.





THE

## HISTORY AND DESCRIPTION

OF THE

# ROYAL MONASTERY OF BATALHA,

WRITTEN ORIGINALLY IN THE PORTUGUESE LANGUAGE

B Y

FATHER LUIS DE SOUSA:

AND

TRANSLATED INTO ENGLISH; WITH NOTES,

ВУ

JAMES MURPHY, Archite&.



THE

#### ORIGIN OF THE FOUNDATION

OF THE

## ROYAL MONASTERY OF BATALHA.

DON JOHN, the first of this name, and the tenth King of Portugal, finding his kingdom invaded, encamped in the plains of Aljubarrota, in the district of Leiria, accompanied by a few, but faithful and resolute subjects. His adversary, another King named John, and also the first of that name in the regal line of Castile, was drawn up in his front, with all the forces of his kingdom, among whom were a great number of Portuguese, who followed him either through motives of interest, or from a mistaken idea of the justice of his cause: Matters having arrived to this criss, a battle became inevitable.

Notwithstanding the uncertainty of success in war, even when both sides are equal, and the great danger which threatened the Portuguese, on account of the inferiority of their number compared to that of the enemy, whose multitudes covered mountains and valleys; yet our King, finding that he was pursued within his own dominions, could not avoid meeting his antagonist, without great discredit, if not total loss of reputation. At the time he resolved to give battle, he implored the victory of Him, who alone has the disposal of it, whence he is called the Lord of Hosts. He also invoked the mediation of the Virgin Mary, because the battle was on the eve of her glorious assumption; and made a vow, if he came off victorious, to build a magnificent Monastery in honour of her. The Lord was pleased to crown his

Α

arms with fuccess, notwithstanding the confidence the enemy placed in the superiority of their numbers \*.

In consequence of his victory, the whole kingdom was shortly reduced to obedience; but the time which was occupied in different arrangements did not prevent the King from discharging the obligations of his vow. Though employed in arms, he examined designs, consulted architects, and sought for artificers. On the one hand, he reduced some places that held out against him; on the other, he proceeded to raise this sacred Edifice; and thus the work of the Monastery went on for the space of three years. When engaged in the siege of the Castle of Melgaso, he promised to give the Monastery to the order of S. Dominick, as expressed in his will, made many years after in the following words.

"Whereas we promifed on the day we had the battle with the King of Castile, if the Lord would render our arms victorious, that we should order a Monastery to be built in honour of our blessed lady S. Mary, on the eve of whose assumption the battle was fought. After the commencement of the said Monastery, Dostor John das Regas, of our council, and F. Laurenço Lamprea, our confessor, being with us at the siege of Melgaço, requested, that we should command it to be of the order of S. Dominick: but having some doubts on that head, because our promise was to build it in honour of our lady, the blessed Virgin Mary; they answered, that the said lady was much attached to this order, and declared to us for what reason. Having duly considered the same, we consented, and caused to be ordained, that the said Monastery be of the Dominican order."

As foon as the King made himself master of *Melgaço*, and was returning home, he stopped at the city of Oporto, and thence issued his letter of donation to this order, in the beginning of the year 1388.

Father Raymunda de Capua, confessor to Santa Caterina de Sena, was at this time master general of the order: In the schissim which happened in the church, on the death of Pope Gregory XI, he took part with the true successor of Saint Peter, and vicar of Christ, Urban VI. This General, finding the province had accepted the convent, consumed the same, and the order took possession of it im-

his voice and example to animated his men, that in left than an hour the multitudinous enemy were put to the rout. The king of Calille, who headed his troops, being troubled with an ague, was forced to take horfe to fave hinfelf; most of the Portuguefe, who fided with Calille, and were in the front of the army, were put to the fower, for no quarter was given them. The Royal Standard of Calille was taken; but, usay pretending to the honour, it could not be decided by whom. The number of the falm is not exaltly known, though very great on the part of the Calillians of other cavalry good are fupposed to have perificed, and many persons of diffinction. This is the famous battle of Aliyabarosta, so called, because it was fought near a village of that name.

The following account is given of this battle, by Emanuel de Faria, in his History of Portugal:

<sup>&</sup>quot;The king of Portugal, understanding the approach of the Castilians, drew together his forces from Coimbra, Operts, and other places, and marched out of Columnerars to give them battle. On the morning of the 14th of August, 1385, he entered the plains of Aljubarrata, where he knighted several gentlemen. The Castilians at first intended to march directly to Liston, yet, after some conclusion, they reloved to engage. The forces on both sides were very unequal: the Castilians are reported to have been 33,000 strong, and the Portugues'e but 6,500, besides having some local disdavantages. The law was setting when these two unequal armies engaged. The Castilians, at the first charges, broke the Portuguese vanguard; but the king coming up.

mediately. Father John Martins, professor of theology, and a person of great repute throughout the whole kingdom for virtue and learning, was ordered to preside over it. The work being conducted under royal agents, he, with his companions, did nothing more than say mass, preach on sessival days, and reside as in their own house. But they had neither the directing, nor planning of any part, because the whole structure was on the King's account, and carried on by those, who in his name presided there.

Of the situation the King chose for the Monastery, and the reasons which induced him to build it there.

THE King, defirous of building a Temple and Monastery, which should surpass the most stupendous, not only in Spain, but throughout all Christendom, succeeded in realizing what he conceived in imagination; for neither bis age, nor many succeeding years, witnessed for grand and magnificent, so perfect and elegant an edifice. He invited from distant countries, the most celebrated architects that could be found, and collected from all parts, the most dexterous and skilful stone-cutters: to some he held out honours, to some great wages, and to others both. The same of the greatness of the structure, drew from all parts of the kingdom multitudes of workmen, for works of the kind are attended with this good, they maintain numbers of poor people. The King being possessed of enormous wealth and having faithful overfeers, the work seemed to ascend like an exhalation.

But before we enter upon the particulars of the fabrick, it may not be amifs to fay a few words, concerning the motives which induced this prudent King, to conceive in his exalted mind, the idea of raifing a pile, the admiration of the world, in a depopulated defert; defititute of fhady woods and cooling fprings, and in a low, humid fituation. In great cities and towns, or near them, are to be found many persons of discernment, to praise and estimate every thing that is meritorious. Wood and water are useful and ornamental accompaniments to a great convent: an elevated situation adds to its dignity, extends its prospect, and contributes to the health of its inhabitants. On the contrary, a low situation conceals its grandeur, diminishes its appearance, and, in consequence of its generating infirmities, renders it a living sepulture.

Notwithftanding these weighty objections, the King, agreeably to his previous resolution, would not change the situation in which he received the Divine savour, as declared in the words of his testament. Now, since it was to be built where the battle commenced (in which situation he immediately commanded an oratory to be erected to St. George), or in its neighbourhood, there was no place in the district better adapted for the purpose than that which is called Canoeira; the soil about it being dry, and a fine river slowing throughout the year, very serviceable to the Monastery. And a little lower down, the eye is struck with extensive and sertile

plains, watered by its course, and by that of another great river. These circumstances are of great consideration; for where there is water and ingenious people, there can be no want of refrigerating scenes. With respect to the lowness of the situation, it is compensated by the lostiness and magnitude of the work, which, the King imagined, would draw thither sufficient inhabitants to form a respectable neighbourhood. As to the humidity of the site, the Architects assured him, it would dry with the edifice, or at least such parts of it, as were injurious to health; and they were not mistaken in this respect, for, although the Monastery experiences moisture at times, it is not unhealthy. Moreover, the situation is not more than half a league from St. George, where the engagement began. All these considerations outweighed the other objections.

To convey an appropriate idea of this ftructure, is, more properly, the work of the pencil, than the pen; better adapted for the canvas, than the descriptive page; because all description must fall short of its excellence: it being impossible to particularize in writing every minutiæ, which is very easy in the language of light and shade. The historian can give but a general idea of things, whereas the painter, by the magick of his art, represents every part however small.

As a proof of this, it happened that some strangers of good taste, who had intimation of this structure in their own country, from the copious narrations of our fathers, were greatly surprised upon seeing it, to find how far it exceeded what same reported; yet, these were men who had seen and compared the first edifices in Europe. With this apology, we shall proceed to give as clear and accurate a description of it as we are able.

## Description of the Church internally, --- Dimensions and Properties of the Edifice.

THE first appellation the King gave the Convent, was Canoeira, on account of its being within half a league of a small village of that name. The title by which it is known at present, derived from the cause of its establishment, is Batalba. Our ancient fathers, more religious than classical, call it improperly De Bello: a name which would be proper and applicable, were we to take its signification from the Latin adjective bellum fine, or beautiful, instead of the substantive bellum, which imports war.

The Church commenced with amazing grandeur: the workmen, conceiving an idea of its elevation, from the vast extent of the foundation, thought it impossible to find men and treasure sufficient to complete it. The body of the Church alone, from the principal entrance (which is at the West, and runs towards the East, agreeably to the manner of the Ancient Churches), is 300 palms \* long, to the first

e A Palmo Craveiro of Portugal is 8 46 inches English measure. Or, as 43 is to 60, so is a Portuguese palm to an English foot nearly-

step of the great chapel; and thence to the wall at the back of this chapel 60 palms, making the whole 360. The breadth is 100 palms, equal to one third of the length taken to the first step of the great chapel.

The above dimensions, correspond with the elevation, agreeably to the just proportions of Architecture. The height is fuch, that an athletick slinger can scarce cast a stone to the vault of the nave; for it is 146 palms from the pavement of the Church\*. Of the two ailes and the nave, the latter is 33 palms wide, and the former 212 each. These, added together, fall short of 100 palms, the breadth of the Church, as already mentioned; but the deficiency is made up by the addition of the pillars, of which there are eight at each fide, of twelve palms diameter at the bafe.

The nave and ailes are covered with vaults, which, together with the pillars and walls, are all of hewn stone, united with such accuracy, that the joints are fcarce perceptible. The thickness of the walls is equal to that of the base of the pillars, that is, 12 palms. The workmanship wants only to be polished to exhibit all the elegance that art could devise. The quality of the stone is the same throughout the building, nor could all Spain produce better for fimilar purposes: for, notwithstanding the colour is very white, yet it is solid and durable, and at the fame time yielding to the chiffel. This is fufficiently evident from its having already flood 200 years, † without any traces of decay, with the exception of the loss of its original whiteness: it is not so tarnished, however, as to lose every trace of its primitive gracefulness. In this respect, it may be compared to a beautiful face, exposed to the influence of the fun and air, yet is scarce ever so injured as to lose every trace of its former charms. Thus it is with this stone, which derives from antiquity a tint, neither brown, black, nor disagreeable ‡.

The Transept is 30 palms wide, just the fifth part of its length, (that is, 150 palms). The walls of the body of the Church are all plain, not interrupted, nor excavated (as is often feen in others) by a number of chapels, except, that at the right hand of the principal entrance there is a large arch, leading to a beautiful square room, of which we shall speak hereafter.

The front of the Transept, at each fide of the high altar, is subdivided into four chapels, that is, two at each fide §. The first, next the Sacrifty, is dedicated to S. Barbara; this chapel contains a low Sepulture of a Cardinal, whose name and family are no longer known; it is pretty certain, however, that he was of the blood royal. The fecond is dedicated to our Lady of the Rofary;

<sup>.</sup> See the Transverse Section of the Church.

Internally it retains its natural colour, but the outlide of the Edifice has † The Historian appears to have written his account of this structure near 200 years ago, for the building is now about 400 years old.

### Characteristic Incursal to Incursa

here we see a high monument of good workmanship, to which King Afonso V. ordered his Queen Dona Isabel to be translated, who died at Evora, in the year 1455. The third, which is at the right hand of the high altar, is called the chapel of our Lady da Piedada i.e. of Mercy; here the remains of King John the Second are deposited \*. The fourth chapel, the founder of this structure, appointed for the remains of the Grand Master of the Order of Christ, Don Lopo Diaz de Sousa; a situation his valour and great services well merited. Count de Miranda Anrique de Soufa, now the fuccessor and heir of this Master, deposited here, in our days, the remains of his consort Dona Mecia.

In the middle of the great chapel, below the steps of the altar, King Don Duarte and his Queen Dona Lianor are inhumed, in a large tomb of the fame kind of marble as that of the edifice. This tomb is without any inscription, and diffinguished only by the cumbent effigies of both, with their right hands joined: his left rests upon an escutcheon of arms, that of the Queen holds a book. The effigies are of excellent workmanship, and faid to be executed after nature. Opposite the Transept entrance, at the end of the cross, is the chapel of our Saviour, with a large and beautiful stone altar-piece of modern workmanship +. The other five chapels, that is to fay, the great and the four collateral ones, may be faid to have no altar-pieces: for, allowing that the great chapel and that of the Rosary have altar-pieces, they are too small, and of very indifferent workmanship; which clearly evince, that they are not of a piece with the rest of the fabrick, nor correspondent to the intention of the founder. As to the other three, they are entirely destitute of altar-pieces ‡. are windows in each chapel, in the fituation wherein the altar-pieces should properly have been placed; whence we may infer, that, were it the intention of the founder to make altar-pieces of wood, or of stone, he would have made them at the beginning, or have left a vacancy for inferting them afterwards. In my opinion, he intended, according to his wonted magnificence, to make them of filver, formed like the effigies of Saints, not fixed, but moveable, so that upon festival days, they might be brought to cover the altars; and, I am the more convinced of this, by his having bestowed to the treasury fifteen bufts, as we shall fee hereafter.

In each of the five chapels, the windows are richly illuminated with emblematic paintings on various devout subjects. And though the situation is bleak in consequence of the great height of the walls, yet, the greater part of the glass is still entire, and the original casements are not injured in the leaft. There are persons residing in the house, who have fixed salaries for keeping them in repair.

<sup>•</sup> The body of this King, who is field to have died in confequence of points, was conducted from the Cathedral of Silvas, to this Monsflery, where it remains to this day incorrupted.

† See the letter F in the General Plan.—The architecture of this altar the letter F in the General Plan.—The architecture of this altar.

The great chapel is illumined with fourteen windows, of which ten are adjoining the altar-piece, that is, five below, and five above. The height of each is 42 palms, by 31 in breadth. Confequently the aperture of every window is 147 fquare palms, which aperture is filled with stained glass, without either transform or mullion.

The other four are placed two on each fide, and so high, that they receive their light over the collateral chapels; these are 20 palms high, and 12 broad. To secure the glass, each has two mullions of one palm in thickness, so that we may compute each of these windows at 200 palms of glass.

The four collateral chapels have each three windows, which differ but very little in fize; upon an average, we may compute the height of each at 40 palms, by 3 in breadth, with the same quantity of glass.

## Description of the Mausoleum of the Founder.

WE mentioned before, that on entering at the principal door of the Church, there is an arch at the right-hand, infide of which is feen a quadrangular room, that measures 90 palms on every side. The stones of which it is composed, are of the fame quality with those of the Church; it is vaulted, and the centre crowned with an octangular lanthorn, fupported by eight pillars; a contrivance which gives light to the infide, and support to the arches of the ailes, whilst it adds to the magnificence of the chapel. The distance from one column to the other, measured on the diameter of the octagon, is 38 palms. The whole is decorated with beautiful windows, which, like those of the Church, are ornamented with ftained glass, bearing the arms of the kingdom, and the emblems of the King as he commanded them to be made. As the lanthorn rifes confiderably above the first tier of windows, there is a fascia of stone at a certain height to bind the work, and upon this fascia are placed other windows, directly in a line with those below and similar in workmanship. The whole height, from the keyftone of the vault which covers the lanthorn, to the pavement of the chapel, is 92 palms.

The above lanthorn, forms a kind of pavilion to a fepulture and an altar, which are placed between the pillars; the fepulture the King had made for himself, and for Queen Philippa\* his confort; though the Church was built

<sup>\*</sup> Queen Philippa, was daughter to the Duke of Lancafler, who, at the infligation of King John the First of Portugal, afferted his right to the Crown of Criflic, to which he appeared to have had a legal tide by his wife Conflance. Upon this prefumption the Duke fet fail from Plymouth, and arrived at Cruna in Gallicia the 24th July 1366, and landed with 2,000 horfe, and 3,000 archers, bedies other forces a feveral perions of dishindion accompanying him.

The Duke, at this time, was fixty years of age, without any grey hairs; his

perfon was tall and well fluped, be was affiable and modell in convertation, and in all refpects antwered his royal defeent. With him came his wife Conflance, and his two daughters, Philips by his first wife, and Catherine by the fecond. Scarce was he landed at Coruna, when that place acknowledged him as hawful Sovereign, as did also the city of Santings, and the greatest part of the kingdom of Gallicia.

When the Duke landed in Spain, King John was at Lamego; and having

at his fole expence, yet, he refused with his usual greatness of mind, to occupy the best place in it. The monument is of very white marble, and ornamented, on every fide, with foliage of briars in demi-relief, bearing thorns and berries: at intervals are these French words, Il me plait pour bien\*.

The meaning of this emblem is fo exalted, that we must allow this Prince to have great understanding; because, if we take the true signification of the Latin name of a briar, which is Rubus, it means a bush, or bramble. This is an allufion to Mofes, who was called by the Lord, amidst his people to lead them forth from bondage. The King being called in like manner, to a fimilar enterprise, which, like Moses, he obeyed without hesitation, with the words, Il me plait; as much as to fay, that in compliance with the divine call, he would most cheerfully undergo every difficulty and labour for the preservation of his people.

If we confider it an allufion to the mysterious branch of the sacred text †, which is likewise a kind of bush, or bramble, the device will be very applicable; for, our Prince was confessedly another Abimelech, as to what regards his birth and beginning, but by means of works of valour and virtue, contrary to him, he finished his days full of prosperity. Abimelech, in order to reign alone, treacherously put to death seventy brothers, lawful children of his father, being himself illegitimate. Our Prince, on the contrary, was so void of ambition, that he acknowledged his two brothers who absented themselves, to be nearer and more worthy heirs to the crown than himself; therefore, he intended nothing more, than to preserve it for them under the title of Defender. That of King he did not assume, till the united voice of the people, and the absence of his brothers compelled him to it. If then Abimelech was a fire that came out of the branch, which burnt his city, his people, and himself; our King was a fire, or luminary of honours, a victorious hero, and an ornament to the illustrious throne of Portugal. After reigning many years, full of prosperity, rich and contented, he departed in peace, furrounded by children and grand children, and was beloved by his people, as much as Abimelech was detefted. So that the device, taken altogether, is fententious, and highly applicable to the Royal founder.

Upon this tomb are two cumbent figures of marble, one of the King in

agreed to meet the Duke at Ponte-Mauro, fet out with a numerous retinue They met, upon the 1st of November, in a plain near Melgngo: here it was agreed, that, if the Duke fucceeded in his enterprife, he should give twelve towns with their territories to the King of Portugal, as a dowery with his daughter Philippa. The Princels, accordingly, was conducted to him, and they were folemnly married upon Candlemas-day, in the year 1387. Immediately the Queen's household was established, and a splendid revenue

The King having fpont two months with his Queen at Operto, marched at the head of 3,000 Spearmen, 2,000 Crofs how men, and 5,000 Infantry, to meet his father in law at Bragança. They entered the dominions of Castile, and

took Caftro, Calvo, Montilla, Rofales, Valderas, and Villalobas. 'Though Gallicia had received the Duke as lawful King, yet, no place in Castile admitted him but by constraint. Hereupon the King told him, that, to make an absolute conquest, he had better return to England for more forces. The Duke approved his advice, and they returned to Portugal, where Ambassadors came from the King of Castile, offering, that Prince Henry, heir to the crown, should marry Catherine the Duke's daughter. The Duke affented, and the war be-twixt him and Caftile ended. Soon after he returned to England.

De Faria's Hylory of Portugal.

\* See No. 28 in the Plate of Ornaments, Mottos, Se

+ Judges, c. ix.

complete armour, the other of the Queen on his right, with their right hands locked in each other \*; their heads are turned towards the west, and each has a particular inscription carved on the side of the tomb, which, being large, shall have a separate chapter. The altar above mentioned is at the foot of the sepulchre, adjoining the pillars which support the lanthorn, in fuch a manner that the altar and fepulchre together make but one chapel.

In the wall opposite to the entrance, at the King's right-hand, are four mural sepulchres under as many arches of exquisite workmanship; upon the tablet of which sepulchres are represented escutcheons of arms, mottos and devices in mezzo relievo, relating to the King's four fons who are interred therein †.

#### Don Pedro.

IN the first sepulchre is interred the Infante Don Pedro, the eldest of the four; he was Duke of Coimbra and Monte mor, and governor of the kingdom for eleven years during the minority of King Afonso V. his nephew and son in law. We might truly affirm that he was the most perfect and just governor the country experienced for many years. It is related that this Infante visited feven parts of the world ‡: however that was, there is no doubt but he travelled a great deal; in Germany he was present with the Emperor Sigismund upon some memorable occurrences. His death was unworthy of the great virtues with which he was endued: he was unfortunately killed in a battle, called in ancient records Alferroubeira, in which he was the fole object of the enemy's pursuit, and almost the only one that fell a victim to his rage, though of all others the most deserving of life.

His fepulchre exhibits the device of the Order of the Garter, with its motto, of which he was a Knight. This order belongs to the Kings of England, and they confer it as the highest mark of distinction on their principal friends, and other meritorious persons. In another part of his sepulchre are to be seen balances, mixed with branches, from which acorns are fuspended like those of the ilex, with this motto, Desir §. It is faid that the balances are a particular device the Infante had of the great Archangel S. Michael, in a certain miracle attributed to his birth; a device, which coincides with the actions of one who held the administration of the republic, and with the solemn

<sup>\*</sup> See the Plate of the Effigies of King John and Queen Philippa.

<sup>+</sup> These are the King's four sons after the Hereditary Prince Don Duarte, who fucceeded him to the throne, and for whom he left the great chapel. We do not reckon the Infante Don Afonfo, the first child, who died in his infancy, and is interred in the Cathedral of Braga

<sup>1</sup> Don Pedro fet out from Portugal in 1424 with a train suitable to his

quality, and travelled over a great part of Europe, Afia, and Africa, in which employment he spect four years. As travels at that time were very rare, especially among persons of his rank, his gave risk to many fabulous reports, which have fance rendered the truth itself suspected.

<sup>§</sup> No. 29 in Plate of Ornaments, Mottos, &c.

promise he made to preserve justice; but as serious persons seldom make great promises, he affures us of his good intentions only, by the word *Desir*, which means, *I wish*.

As concifeness is commendable in all mottos, his must be admired; for, though it consists but of two syllables, it sufficiently satisfies us with the whole of the device, which is such as might be expected from an excellent governor. His conduct in this respect appears to be a true imitation of the great Sages of Greece, who exchanged the arrogant name of Wise-men, (for in reality none but God is wise), for that of Philosophers, or Lovers of Wisdom. The Infante in like manner modestly promised, not actions, but sincere intentions, in the public government; and conformably to this promise he performed excellent things indeed, like another Solomon, whose ardent love of knowledge obtained of Heaven the greatest earthly wisdom \*.

As it is natural for people to wish for the ancient times and golden ages, when they had abundance of every kind of fruit, and lived in perpetual peace without oppression; it appears, the branch with the acorns indicates, that he would endeavour to introduce by his good government a similar age: because, this fruit is such, that, without any care, or labour, the earth produces it, and people had only to gather it, and thus they maintained themselves in these primitive ages, as Historians inform us.

We may also add, that it was a custom among the ancient Romans, to honour, with a crown of oak, the citizen who saved the life of another in battle †. This they called the Corona Civica; which was so much esteemed, that, after the commencement of the Emperors, they accepted it as the insignia of elemency, in preference to a crown of gold or of any other kind ‡. It is said, Augustus conferred such with his own hands, and permitted himself to be crowned with one, considering it a gift conferred upon him by the human race, for the general peace he gave to all the world. Now as the Insante was in the kingdom such a great personage, he always wished to make it appear that he governed with justice and equity between citizen and citizen, by which means, he promoted the good of all: hence we may conclude, considering every thing, that the device was judiciously adopted.

#### Don Anrique.

THE fecond sepulchre is occupied by the next in age, the Infante Don Anrique, Duke of Vizeu, Lord of Covilbam, and Master of the Order of

Chrift. It is faid, that he was elected King of Cyprus; indeed it appears by the effigy over his fepulchre, that he was dignified with a royal crown. However that was, we know for certain, that his foul was crowned with many and exalted virtues. He led in perpetual continence, a retired and philosophical life, cultivating all the useful sciences, and, in particular, those of Cosmography and Geography, by which he opened the way, to the first discoveries, of the seas and unknown lands of the coast of Africa. For this purpose he lived at Sagres, in the kingdom of Algarve, in a small village, which, at present, is called after him Villa da Infante. In these sublime pursuits, he was blessed with a long and tranquil life, and a peaceful death.

His escutcheon bears the device of the Garter, with which he was invested in his early days, because he was related to the King of England; and another escutcheon bears the Cross of the Order of Christ. Among the sculptures are to be seen little stalks, with tender branches shooting out of them; the form and fruit of which resemble the evergreen oak, with its acorns; the branches are short and twisted, and the leaves set with sharp points. He, who purposed to cultivate the barren deserts of Lybia, with infinite danger by sea and land, which at first was the object of his discoveries, and the beginning towards humanizing that barbarous country, and giving it the knowledge of the true God, might well express his good intention, and the difficulty attending the enterprize, in the hardiness of an oak, and by the dry fruit which it yields. His motto is also expressive of this undertaking, Talant de bien faire\*, that is to say, A disposition to do good.

Though this expedition put him to great expence and trouble, he never entertained a thought, that it would be attended with more advantage, than the oak and its fruit are to the mountains; as may be inferred from a book which he caused to be written on the progress of these discoveries, wherein he conveys the same thought under other emblems, very ancient and pointed in their signification; namely, the Pyramids, the works of the ancient Kings of Egypt, which, though raised with immense expence and labour, and reckoned among the wonders of antiquity, yet serve for no human purpose. However, they clearly express the meaning of the Infante in his writings. The book we allude to was sent by the Infante to one of the Kings of Naples, and it was seen in the city of Valencia, in Arragon, in the Cabinet of the Duke de Calabria, (the last descendent in the male line of that King), who went to Naples, and ended his days with the title and command of Viceroy.

<sup>\*</sup> See No. 30 .- Plate of Ornaments, Mottos, &c.

## Don John.

NEXT follows the Infante Don John, Master of the Order of Santiago, and Lord High Constable of Portugal. This Prince married the daughter of the Duke de Bragança, grand-daughter of the Lord High Constable Don Nuno Alvres Pereira. Don Afonso, the brother of the latter, had two daughters, from whom most of the Kings and Princes of Europe participate of the blood of this illustrious family.

His device consists of extended branches, with wild strawberries, amongst which are suspended square pouches, like those formerly used, with three shells over each. The motto is in French, like those of his father and brothers, because, in his time, the French language was much esteemed and current among Princes for its courtesy and politeness: it is this, Je ai bien reson\*, I have good reason.

As we are unacquainted with any particular actions of this Prince, we are at a loss to know, what his motive is grounded on, for adopting the emblem of the wild strawberries, which no doubt was very proper. The only reason we can assign for it, is his devotion to the Glorious Baptist, as may be collected from his altar, which, together with his name being John, induced him, in all probability, to adopt the emblem of a tree bearing wild fruit. We know the great Saint never looked for any better food; and it is not inconsistent to assimilate two Saints, the one by devotion, the other by obligation. Now, if the fruit of the forest denotes the Baptist, the pouches and shells are devices of St. James, of whose Order the Infante was Master.

### Don Fernando.

THE last sepulchre † is the place of the last and sourth brother, the Holy Infante Don Fernando, Master of the Order of Avis, and the sixth son of King John. His escutcheon bears the Royal Cinques upon a Cross, adorned with the flowers of his Order. The emblems on its field, consist of branches like those on the sepulchre of the Infante Don John, but with this difference, the latter are expanded, whereas the former are wreathed, and bear a different fruit. Some have supposed these circular branches to be of the thorn tree, in consequence of the resemblance they bear to a crown;

<sup>\*</sup> No. 31.—Plate of Ornaments, Mottos, &c.
† Sepulchre. So called by our Hillorian, though I conceive it might more in Africa, where he ended his days in flavery, and is interred.

but as they have no thorns, we cannot readily admit the fuppolition. The emblem, however, in this fense, would be excellent, and altogether prophetic of the thorns and troubles which he afterwards experienced among the Moors.

As he was a Saint, and loved the thorny crown of Christ, perhaps he was too modest to declare to the world what he foresaw, that it might not appear he boasted of virtues before hand, which his actions and patient sufferings afterwards evinced he possesses the thorns therefore are wanting to complete the emblem. Although we see no inscription on his monument, yet its silence proclaims more than all those of his brothers.

The fepulchre of the King and Queen has an altar near it, dedicated to the Holy Cross: those of the Infantes, in like manner, have altars, which are feparated from each other, by arches made in the recesses of the wall opposite the King's feet. These altars are consecrated to their respective tutelar Saints, and decorated with small altar-pieces, suitable to the situation, and with ancient paintings in good preservation. The first, which is next to the sepulchre of the holy Infante, is dedicated to the assumption of our blessed Lady. Among the pictures is seen the portrait of this Prince, with his chains and the incidents of his missortunes.

The fecond is confecrated to John the Baptist, and is applicable to the name and devotion of the Infante Don John.

In the third, the Infante *Don Anrique*, ordered the Infante Don Ferdinand to be painted; for he confidered him a Martyr, and as fuch rendered him devotion.

On the altar of the Infante *Don Pedro*, which is the fourth, is a painting of the Angel Saint Michael, whose insignia he adopted for a device, as we observed before.

The wall opposite to the King's head is occupied by a large facrarium, in which, are preserved the holy utenfils, used in the celebration of the masses daily offered up for these Princes, and distinguished by their respective devices and mottos.

That we may not omit any thing concerning the holy Infante, we find here among his wreaths, what was deficient in his fepulchre, namely, the motto which like the rest is in French, *Le bien me plait*, that is to say, *I am pleased with the good*. This he verified by his death and actions. But considering his magnanimity, I can hardly believe that he used this motto, or permitted it to be applied to him whilst living; except that the branches in his emblem are of ivy, and

not of briar as has been afferted, which appears the more probable from their having no thorns. Then, this motto is proper, because there are two forts of ivy; one of which grows clinging round plants to the fummit, however lofty, without injuring them, and draws its fuccour from that which it intwines. The other is of a different quality, for it injures the trunk which it intwines. It appears by the motto, that he is only pleased with the good fort, which is consistent with a man, who from the cradle to the grave, was exemplary for his steady sanctity of manners. It is also conformable to the purity of his soul, considering, a peculiarity which is attributed to this plant; namely, if wine and water mixt, be thrown into any vessel made of its wood, the wine will disappear and be lost, and clear water only remain\*.

## Description of the Church and Monastery externally.

THE Church has two entrances, viz, the principal and the transverse. The porch of the principal entrance alone would require a volume to particularize the columns, figures, and variety of ornamental sculptures, with which it is decorated.

In the centre of the weft front, just above the porch, is a window of fuch exquisite workmanship, that it is scarce possible to execute the like, with more accuracy, in wax or needle work, or in the overture of a guitar †. The last comparison is very applicable to its circular form, and to the minuteness of its parts: the intervals correspondent to those, which in the guitar emit the interior sound, are here filled with stained glass, representing in various paintings the arms and devices of the kingdom; together with symbols and emblems relating to the King. As the personations are numerous, because of the magnitude of the window, they admit a profusion of light, though somewhat obscured by the colours; but this obscurity is amply compensated by the beauty of the variegated rays.

It is furprifing, how fuch delicate work has flood, fo many years, uninjured, in that lofty fituation. The durability and grandeur of the other windows of the Church are no less furprifing. In the body of the Church alone are 30 windows, fo large, that in a clear night the Church is almost as luminous as an open square, notwithstanding the glass is covered with colours.

It will not be amiss to describe the dimensions of some of these windows, which, we had taken by an Architect, in confirmation of what we affert. In the upper part of the Nave, there are 16 windows, that is to say, eight at each side, of 18 palms in height to the capitals of their columns, by 9 palms in breadth,

with two mullions, of one palm each, in thickness, to secure the glass; which being deducted out of the breadth, leave 7 palms of aperture; these, multiplied by the height, make 126 square palms, the quantity of glass in each window.

The two Ailes have 12 windows; that is to fay, four to the fouth, joining King John's chapel, and eight at the opposite fide, each twenty-two palms high by seven and a half broad. And, because they are likewise divided by two mullions of one palm thick, like those of the Nave, each window consequently contains 121 square palms of clear aperture, and the same quantity of glass.

Of the fame height and breadth with these, are two windows that accompany the principal door, one at each side, which added to the others make the number we mentioned of 30. Such a quantity of glass may be reckoned one of the most remarkable things in the edifice.

To the above number, are to be added two windows in the Transept; that over the transverse entrance alone is 42 palms high, by 14 broad, finished in a most curious manner with reticulated stone work, and the interstitial vacuities, filled up with stained glass\*. These, together with the windows of the centre and collateral chapels, added to the fine window over the principal entrance, render the Church luminous, cheerful, and beautiful.

About the time the Church of Batalha commenced, was founded the famous temple of the fee of Milan, called *II Domo*, during the pontificate of Urban VI. The interior of this temple is altogether dull, and melancholy; contrary to that of Batalha, which is light and cheerful. The Milanese defend their artists, and attribute the effect to intention and sound judgment; alleging, that as a grave, solemn aspect, renders a man more respected, so, in like manner, a degree of gloominess makes a Church more venerable. This reasoning, however, does not convince me; for, allowing the argument to be true with regard to men, it does not appear that temples, which are the representations of heaven, the seat of eternal light, should have any resemblance to the abode of perpetual darkness. To return to our history: all these windows are so securely fixed, so transparent and beautiful in colour, that, notwithstanding they have already been exposed to the injuries of 200 years, they scarce exhibit any traces of decay.

The flone vaults of the Church are also covered with a roof of the fame materials, composed of large square flags, about the thickness of the leaf of a strong table, and *rebated* at the edges  $\dagger$ : thus, an everlasting

<sup>\*</sup> See the Elevation of the Transeps Entrance.

<sup>†</sup> In the Transfuerse Section of the Church, the covering of the roof he alludes to is represented.

roof is formed, that will bear to be walked over, fwept, and cleanfed of every dirt, contracted by the accumulation of years.

The top is enclosed on every fide with a railing of stone work, over which are placed fleurs de lis, that serve as a distinct crowning. every part of this vaft machine, there are two circular stair-cases, formed like screws, which lead to the roof of the building; one is in the transept wall, at the left-hand fide on entering at the fouth door; the other adjoining the chapel of our Saviour; each confifting of 120 steps\*, from the church floor to the fummit of the edifice.

There is also another stair-case in the convent of very easy ascent, from the fummit of which, we have a remarkably delightful and extensive prospect of a mountain of stone. Nor does it differ very much from other mountains, except, that here, the rocks are worked and polished by dint of art; whereas the others are shapeless, in a rude state of nature, with various inequalities, now finking into deep valleys, then proudly aspiring to the clouds. In the same manner we see some inequalities in this structure: in one part a mountain appears, as in the body of the church, whilst other parts are in a valley, as the refectory, chapter-house, and cellar; lofty pyramids are also found here, emulating in height those of nature, but much superior in beauty.

These pyramids, which are three in number, are of very rare workmanship, and constructed in such a manner as to admit of access to the summit +, but not without danger, because of their great elevation: the one over the lanthorn of the Founder's Chapel is in the form of an octangular pyramid ‡, 50 palms in height, with a space of 4 palms on each side of the base, surrounded with a parapet of net work, and crowned with fleurs de lis. Taken altogether, it has a majestic and beautiful appearance. Another takes its rise over the Archives, between the cloyster and the facrifty, and is in height 63 palms §. The spire over the tower ||, which contains the bells and clock, is not less deferving of notice; it is fimilar to those we have just mentioned, and fuitable to the rest of the fabrick.

Parentalia, p. 302.

† The pyramid he alludes to was destroyed by the earthquake of 1745, as observed in the Presace. I have given a representation of it in the South Elevation of the Mausslaum of King John the First, from an ancient painting on one

of the windows of the church.

§ This fpire is 62 feet 2 inches high, as represented in the plate; which height I afcertained two ways, first, by a quadrant; secondly, by taking the diameter of the base of the pyramid, and the angle of inclination of one of

|| That spire does not exist at present,

<sup>\*</sup> Each Step is 95 inches high, the whole height is consequently 95 feet. \*\* Extent up in sy invited major in the whole aright in connequently of sect.

† There is no other access to its furmit than by means of the bunches placed on the angles of the pyramid or spire (figures 15 and 16 in the Plate of Cramenus, Mottos, 8c.), to which I suppose he alludes. Sir Christopher Wren was of the same opinion. "The apples of pyramids in the Gothic architecture" were usually enriched with the flower the Botanists call Cultensus, which is a

<sup>&</sup>quot;were floany entrance with the whole to affect on the outlide to amend any defects, 
without railing large feafolds upon every flight occasion. I have done the 
fame, being of so great use, as well as agreeable ornament."

Of the Sacrifty, with the treasure of relicks, gold, filver, and vestments, which the Founder bestowed.

THE entrance into the facrifty is from S. Barbara's chapel, at the end of the cross. It has nothing in its architecture remarkable for grandeur or composition, but is well worth seeing on account of the treasure of facred relicks, gold, silver, and vestments of brocade, tissue, and silk of every kind, that the King, with a true princely liberality, conferred on it: we shall commence with the most precious, which are the relicks.

The Emperor of Constantinople, Emanuel Paleologus, being in the city of Paris in France, in the year of our Lord 1401, whither he came, for the purpose of obtaining the joint assistance and protection of the Christian Princes of the West, against the power of the Ottoman Empire, which was overrunning Asia, and threatening Constantinople and Europe: the King sent an Ambassador to visit him, which visit the Emperor returned with a present of precious relicks, very estimable for their quality, and for the certitude and credibility they derived from the authority of so great a Prince. These relicks were accompanied by a Certificate signed with the Emperor's own hand, and a seal of gold pendent. We shall here give a translation of this Certificate, as it well deserves our notice.

"Emanuel Paleologus, Faithful in Chrift, Emperor of the Romans, and ever August. Health to all to whom these imperial letters shall come, through him, who is the salvation of all. Our merciful Saviour and Redeemer Jesus Chrift, who offered himself to God the Father, as a sacrifice without stain, at the altar of the holy cross, left to all faithful Christians the marks of his sufferings as a remembrance of his miracles."

"Whereas we had in our city of Conftantinople, fome holy relicks of our Saviour, and of many Saints worthy of veneration, as handed down to us from the most Serene Emperors our Fathers, in authentic histories and faithful chronicles; the said relicks being preserved by them, as they are likewise by us, with all due care and veneration. And, whereas we happened to sojourn to these Western parts, on account of the persecutions and oppressions of the Turks, the cruel enemies of the most facred name of Jesus Christ, which they, with their forces, endeavour to exterminate from the face of the earth, especially in parts of Thrace: therefore, in order to seek aid and protection for the Christians of the Eastern provinces, who are oppressed by the said infidels, we brought with us part of the aforesaid relicks and shrines; and being persuaded, that the most

" illustrious Prince, our cousin, Don John by the grace of God, King of Por-" tugal, is worthy of all honour, and filled with zeal for the faith and " Christian religion, insomuch, that his devotion for the Lord daily increases, " we thought proper to give him part of the faid facred things, and ac-" cordingly, we now give to the fame most Serene Prince a small cross of " gold, within which are fome precious relicks of the Apostles, St. Peter, " St. Paul, St. George, and St. Bras. In the middle of the faid cross, " is a particle of the sponge, with which the gall and vinegar were given " to our Saviour. In testimony of the truth of what is herein delivered, " we have caused this paper to be written to the faid most Screne Prince, " figned with our hand in Greek, and in red ink, according to the cuftom " of our Empire, and authenticated by our feal pendent of gold, bearing Greek " letters. Dated in the City of Paris, the fifteenth day of June, 1401. "We also give to the above King, a small remnant of the garment of our " Redeemer Jesus Christ: it is of a colour resembling the yew, of which tree it " is made. Any woman afflicted with the hemorrhage, is immediately cured " by touching its hem. This facred relick is inclosed in a shrine of crystal set " in gold." " Emanuel Paleologus."

THESE holy relicks, accompanied with the certificate of the Emperor, the King received, and commanded to be deposited in the Convent and Sacrifty. The seal is round: on one side, is a large Latin I, placed in the centre, with a medal, bearing the portrait of the Emperor, and an inscription, Emanuel, in Christ, Emperor Paleologus. On the reverse is an image of Christ, with another Latin I, and the words, Jesus Christ. The Latin I, shews the title, in which, he esteemed himself the Emperor of the Romans.

Such are the Relicks; we shall next point out the plate and other articles presented by the King, viz. Fifteen statues of cast silver, very costly and beautiful, representing the like number of Saints of his devotion. Twenty-eight chalices, most of which are gilt. Fourteen pair of cruets. Five sonts with their sprinklers. Eight censers and six boats. Nine small crosses to accompany them. Nine portable crosses for the service of the altars. Four great crosses, three of which are for processions, and one to stand on the high altar. Two losty candlesticks gilt, and twelve inferior ones. Six torch stands, of which two are gilt: it is recorded these two weighed ninety-one marks. Seven lamps of immense size and weight. One lantern. Five pixes. Five paxes. Two ewers, with their water plates for washing the hands. And two small bells.

This plate, as may be well conceived, weighs more than 1200 marks, and is very valuable for its workmanship, and on account of a great part of it

being gilt. Reduced to our standard, it weighs upwards of 600lbs. a magnificent and royal donation for the service of the house of God, and that, at a time, when we possessed neither East nor West Indies.

The furniture that he commanded to be made, for the fervice and celebration of the mass, and for decorating the altars, consists of eleven very rich brocades, with their copes, altar and pulpit cloths, the greatest part of which are ornamented with fancy lace work, or embroidered with gold in a very rich manner. Thirty-two vestments of costly silk, together with many particular vestments of brocades, tissues, and silks, for the ordinary service of each day. Besides several large cloths of gold, of brocade, and of velvet, and different curtains of silk, to ornament the church, altars, and to cover the sepulchres, at the celebration of the anniversaries.

A great deal of the plate being superfluous, there was sold as much of it, as weighed 811 marks. Of the vestments, there were sold, altogether, four of the richest, and another was melted down, which was covered all over with silver foil, in such a manner, that none of the silk under it was perceptible, so that its weight rendered it sitter for ornament than use. The committee appointed for disposing of the above, were composed, not of the Fathers, but of people called in, who judged it necessary to raise a sum of money to support and carry on the work of the Convent, which was at a stand. Having obtained licence from the Penitentiary's Court at Rome, addressed to the Bishops of Lamego, S. Thome and Targo, in the sourch year of the Pontificate of Pope Paul III. they commanded the overseers and melters to purchase amalgamating implements; very necessary things for a Convent that possesses the sum of the possesses of the possesse

## Description of the Chapter House \*.

FROM the Sacrifty you enter the Chapter House. This room is so conftructed, that there can be nothing more wonderful, in so much, that it comprehends the utmost degree of architectural skill. Its form is a square, each side of which measures 85 palms, and is covered with a vault of hewn stone without column, prop, or any thing to support it, but external buttresses, such as are in the side of the church.

It is recorded, that in constructing this vault, it fell twice in striking the centres, with great injury to the workmen. But the King, desirous, at all events, to have a room without the desect of a central support, promised to reward the Architect, if he could accomplish it. At this, he was animated in such a

<sup>\*</sup> Annexed is the Section of this magnificent room.

manner, that he began it again, as if confident of fuccess. The King, however, would not hazard any more the lives of his workmen in striking the centres: therefore he ordered, from the different prisons of the kingdom, such men, as were sentenced to capital punishments, in order that, if the like disaster happened a third time, none should suffer, but those, who had already forfeited their lives to the offended laws of their country.

In the middle of this room, is a large quadrangular eftrade of wood, with fteps on every fide: over this eftrade, are two tombs, covered with rich cloths: in one are the remains of King Alfonso V. grandson of the founder; in the other is deposited Prince Alfonso, son of King John the Second, who unfortunately lost his life at Santerem, by a fall from his horse as he was riding along the banks of the Tagus.

## Royal Cloyster.

FROM the Chapter House we pass to the Royal Cloyster: the door of the one is opposite to that of the other; its form is a square; each side measuring 250 palms, 30 of which are covered at each side with stone vaults. The vaults of this Cloyster exhibit a number of magnissent Gothic arches, silled up, from the spring to the summit, with beautiful tracery work: it is evident from their excellence, that the Artists who executed them, were not inferior to those who formed the frontispiece of the edifice, nor the designers of the former, less ingenious, than those of the latter.

The inscribed quadrangle of the Cloyster is distributed into walks, bordered with large hewn stones, and the inclosed spaces are planted with a diversity of shrubs and flowers. In the midst is a large cistern of water; and in one of the angles, a losty fountain, with water jetting out of different basons, into a large circular reservoir. The fountain is very useful in this situation, because, the resectory door is contiguous to it, so that those who enter, may wash their hands, and gratify their sight, whilst waiting the signal of the dinner bell: for this purpose, the wall next the resectory door is surnished with seats and wainscoted backs, for the accommodation of the Fathers.

### Refectory.

THE Refectory door is fituate in the N. W. angle of the Royal Cloyfter, the west side of which, it nearly occupies. This room, from its magnitude and excellent workmanship, may be considered of a piece with the

rest of the fabrick, being in length 133 palms and 44 in breadth\*, which is nearly equal to one third of its length: it is lofty and well lighted: the whole is covered with a stone vault similar to those we have already described.

The other inferior offices of the convent in general, fuch as the store rooms and cellars, are of dimensions suitable to their use, and sufficiently large to contain the various fruits for the sustenance of the society, who are numerous on account of its being a place of continual study. The wine cellar alone is 160 palms long by 43 wide, covered with a vault.

North of the wine cellar there is a cloyfter of about half the area of the Royal cloyfter, of very good workmanship. On viewing the outside of the convent it appears like a fine village, or many convents together, because of the dormitories, bospitia, infirmaries, library, and the novices' preceptory. The last is extensive enough for a good convent, from the dimensions of its corridors, the number of its cells, the distribution of its oratory, together with its orchard and garden.

Through the dormitory of the convent runs an extensive corridor, covered with a common roof, and lined with boards, the better to preserve the Fathers' health. At the north end is an open terrace, which commands a pleasant prospect of orchards, and a large vineyard, refreshed by the constant course of a fine river. Here also are seen several deep ponds, that at times afford amusement to the recluse and studious Fathers by sishing with cane rods and nets. In this corridor are the infirmary and hospitium, with more than 60 cells, exclusively of those of the novices which amount to 24. The lay-brothers' apartments both externally and internally, the various entrances, the passages to the different offices, the several involutions, notwithstanding their number, all have the appearance of a Royal edifice. Order and convenience, cleanliness and good attendance, are observed in every part; and, to complete the whole, a large subterraneous stream of water runs across the edifice, which carries off all the impurities of the convent.

<sup>\* 32</sup> palms is the breadth mentioned in the original, which is a miftake.

# Description of the Mausoleum of King Emanuel.

WITH the foregoing humble and unadorned description, we have endeavoured to exhibit the magnificence of the edifice which is completed; but there is another less ancient not yet finished, which, if perfected, would crown the splendor of this monastery.

At the back of the chapel of S. Barbara\*, there is a door, with a cross over it in demi-relief, like those worn by the Knights of the order of Christ: this cross stands between two armillary spheres, which guard a shield bearing three characters, viz. the letters Ey within a large C†.

One would suppose that the author of the work intended to excite the attention of the curious who came thither, and was resolved that his enigmas should cost them more trouble to decypher, than an Egyptian hieroglyphick, or a Sibylline oracle. Indeed, it would be much easier to form a judgment of subjects of the latter kind, because, with the affistance of words and allusive figures we may draw some satisfactory conclusion. But from a few insulated letters it is difficult to ascertain the precise meaning of the author; and the more so, as they are subject to receive, camelion like, the colours we wish to impart to them, or, like virgin wax, susceptible of every voluntary impression.

This door of emblems and myfterious cyphers leads to a loggia directly behind the high altar of the church ‡, in the middle of which is a beautiful door-way §, composed of small ornamented columns, which are formed into arches over-head: they have no capitals, nor any other separation whatever. The entrance, which is very wide, has seven columns on each side, and commences, from the extreme ones at the outside, to contract as it recedes till it attains the magnitude of a moderate aperture.

The dimensions and ornaments of the seven columns are various, but all sculptured with such exquisite delicacy, so beautiful in form, and perfect in execution, that one would suppose it impossible to form the like of the most pliant wood ||. The work, therefore, must have been attended with great expence, considering the time and labour it took to carve and polish every stone,

§ In the annexed Plate we have given a reprefentation of these columns, with the other ornaments and hieroglyphicks appertaining to this Mausoleum.

<sup>.</sup> See the letter Q in the General Plan,

<sup>†</sup> Vide Fig. 2 in the annexed Plate,

<sup>1</sup> P in the General Plan.

<sup>§</sup> See the Entrance to the Maufoleum of Emanuel the Great-

and the number that must have been broken under the chifel, on account of the extreme delicacy of the parts.

In four of the interspaces of the above columns, there are words at certain intervals, the characters of which are fimilar in form to those we mentioned before: they are as follow, *Tanyas erey*\*. I have been the more particular in noticing these characters, because in passing from this monastery formerly, in our journey to Entre Douro e Minho, we met at Vianna an edition of a book entitled, The Life of the Holy Archbishop of Braga, D. F. Bartolomeu dos Martyres. The Fathers of that place read some words in it thus. Tangas e Rey, making a g of the y, in Tanyas, and dividing erey into two words, which evidently is contrary to the form of the sculpture, as I then shewed them. The frequent repetition of these words made me folicitous about inquiring after their meaning among the old Fathers, hoping, that by tradition from their predeceffors, they might have obtained a knowledge of the fense that was annexed to them at the time they were sculptured. And this did not appear at all improbable, because they are not more ancient than the days of King Emanuel. Of the language it is not easy to form any opinion, as it is neither Latin nor any of the modern European tongues. But we could find no person to satisfy us with any well founded argument respecting those, or the other cyphers at the entrance of the Loggia.

As it is the duty of an author to deliver his opinion on doubtful pasfages of history, it will not be deemed prefumptuous in me, to endeavour to untie, or cut with a short discourse, this which is not a Gordian knot, though it belongs only to Alexanders to touch those knots which are tied by Kings.

As I found in these words no affinity to the language of the country, I had recourse to foreign languages; and upon shewing the words to a person of great erudition, we concluded that they were Greek; Tanyas being the accusative of the Greek word Tanya, which signifies Region, and Erev the imperative of the word Eréo, which fignifies either Seek thou, or Inquire, or Difcover, --- speaking as it were in the name of the Lord, from the Temple which King Emanuel built, faying, Go thou and explore new regions and new climates; thus animating him, not to defift from his glorious defigns. And this fignification is conformable to the enterprise this Prince had actually in contemplation at the time, namely, the discovery of India †. It also agrees with

<sup>\*</sup> Vide Fig. 9. of the Plate of columns, ornaments, and hieroglyphicks.

† During the reign of John the Second, the Cape of Good Hope weas liftforwards by Barthelman Dian. Soon as Emanuel his facetion steeded to throne, he aftembled his council to deliberate on the expediency of † During the reign of John the Second, the Cape of Good Hope was discovered by Bartholomeu Dian. Soon as Emanuel his successor ascended the throne, he assembled his council to deliberate on the expediency of profecuting the discovery of India, which, after much contest, was resolved

the device of his mysterious spheres, which were adopted by him for another end, and were prophetic of his conquests over a great part of the globe.

But the cypher of the first mentioned door gives us more trouble, as it consists of letters which form no definite word. The first difficulty that occurs, is to ascertain the language to which those characters belong. I take them to be Greek, like those we mentioned before; and, being surrounded by spheres and the cross of the order of Christ, I am induced to conclude there is unquestionably some mystery inveloped in them.

It appears, indeed, as if the founder of the work intended that we should have here, an emblem in imitation of the celebrated ancient temple of Delphos in Greece. For, we read, that over the door of that temple, there was a cypher almost similar, and at the portal an inscription addressed to those who entered. The inscription was this, produce cautous: that is to say, Know thyself. The cypher was el, which signifies, Thou art. This cypher so puzzled the ancient Sages, that Plutarch composed a book upon it \*, wherein, after many arguments, he concludes, that by the word el is meant One Eternal God. His words are as follow:

Deus enim est, et est nulla ratione temporis, sed æternitatis immobilis, tempore et inclinatione carentis, in qua nibil prius est, nibil posterius, nibil futurum, nibil præteritum, nibil antiquius, nibil recentius: sed unus cum sit, unicus nunc sempiternam implet durationem.

And lower down,

Non enim multa funt Numina, sed unum.

Which nearly fignifies, "that it is only of God one can and ought to fay that He is; and this Being is without any dependence or measure of time, a permanent and immutable eternity, an eternity without time or change, infomuch that there is nothing in it first or last, nothing past or future, nothing more ancient or more modern: as He is but one, with one only His presence now fulfills, accomplishes, and declares His perpetual eternity without end."—"Because in truth there is but one God."—Thus far Plutarch.

The learned Father Francisco de Mendoça, of the Society of Jesus, favours this meaning in his first volume upon the Book of Kings; and also Eusebius in his Evangelical Preparations. It is a doctrine so conformable to what we find in holy writ, that one would think the Gentile Historian took it from that part where we read Ego sum qui sum, QUI EST mist me ad vos:

I AM THAT I AM. I AM hath fent me unto you\*. This author finally concludes that the cypher EI is an admonition to us that we are obliged to fear, love, respect and adore a God who exists through all eternity. The words which close the treatise say as much:

Hoc enim pronunciatum est, ut nos percellat & ad venerationem Numinis, utpote quod sit semper, excitet.

Hence I have no doubt but the fame thing is represented to us in the emblem of which we speak, and that it is the answer of the King to the Lord, who commands him to undertake the discovery of new seas and lands, saying, as it were, I know, O Lord! that nothing but thee is worthy to be fought for. These seas and lands, even though joined by many worlds, have their limits and duration, but thou alone art eternal, immortal, infinite.

Nor does the letter c oppose this meaning, for it serves only to support the other two, or to point out to us, in the eternal effence, the facred myftery of the Trinity of the Divine persons, unknown to the Pagan historian. This we shall attempt to shew in two ways; first, because it is the third letter of our alphabet, the same mode of reasoning by which Plutarch proves that the cypher EI was the number five. In the fecond place, because with the other two letters, it makes the number three, as it furrounds the E to which the y is joined.

The third letter is felected from the Latin alphabet in preference to the Greek, and joined with the other two Greek letters. Though at first this may appear an impropriety, we may rest assured it was dictated by judgement: it is a testimony of the catholic truth, expressly adopted by one who was a fon of the Latin church.

To conclude, I have only to observe to those who have a knowledge of the Greek, not to be surprised if they find the Greek y, where the Latin i, or the Greek iota should be: we ought to pardon such inadvertence in the illiterate workmen who carved them, fince in our language and mode of writing both letters have the fame power and fignification.

Having passed through the door of the Loggia, we behold a large unfinished edifice which forms a perfect octagon to In this edifice are seven chapels fimilar in defign and execution; their arches, tracery work, and various ornaments are finished in the most exquisite manner. Indeed it is much to be lamented that fuch a structure should remain incomplete, considering the expence of finishing it would not be very great in comparison to what has been already done, as the walls of the entire are raifed to that height, whence, according to the rules of art, the large vault should spring to cover the fabrick, and make that which is now an open area an inclosed chapel. Notwithstanding this fabrick has been fo many years exposed to the weather, it scarcely discovers any marks of decay: an evident proof of the goodness of the workmanship and durability of the materials.

The purpose for which this pile was raised in fo magnificent a style is very evident. The remains of all the Princes after King John the First and his Sons, are disposed about the convent, in a manner that scarcely deserves the name of interment. It was but reasonable, therefore, that some pious heir in the tranquil enjoyment of peace, should collect their remains, and give them a friendly and fuitable abode.

Now there are various opinions respecting who it was that conceived the idea of the edifice and put the first hand to it. But it is not to be doubted that the greatest part of it was done by King Emanuel, or at least with his permission, and during his reign, for we have positive proofs to verify it. In the first place, we see in the chapel opposite to the entrance\* (the most conspicuous of the feven) two spheres similar to the above mentioned over the first door, the well known constant devices of King Emanuel. In the second place, we read upon shields, in the pendent orbs of the vault of his chapel, the words Tanyas erey. Hence we may conclude, that this infcription, so often repeated in the beautiful portal, together with the emblem of three letters over the first door, evidently belonged to the fame King, for both are accompanied by the spheres. The cross of the Order of Christ seen over the first entrance is not averse from this argument, for he was Master of that Order before he was King, and afterwards united it for ever to the crown. But all our doubts respecting this matter are removed by a Latin Inscription which is over a door in the Loggia contiguous to the entrance: it is this, Perfectum est opus anno 1509, meaning that it was brought to that state of perfection in such a year, being the epoch in which he attained a good age and a glorious reign, enjoying the victories and treasures of India +.

There are some however who think the founder of this work was Queen Laynor, fifter to King Emanuel, intending it as a depository for the remains of her husband, King John the Second, and her son, Prince Alfonso, neither of whom have proper fepulchres in the convent: having possessed a large revenue, and was a Princess of great piety. King Emanuel, her brother, was much at-

<sup>\* 1.,</sup> in the \*General Plan\*.

† There is a fironger proof than any he has yet adduced that this chapel windows of the Chapel. (Vide Fig. 17. in the Plate of Columns, Ornsments, &c.)

tached to her, as well from kindred, as on account of particular obligations he owed her, for the decided part she took in promoting his accession to the throne, from which King John his predecessor was manifestly averse. Those who hold this opinion add, that she reserved the best chapel (which is that opposite to the entrance) for King Emanuel, and distinguished it by his mottos and devices, which are very different from the sober modest style of King John the First. The adjoining chapel she intended for herself and her confort. In this chapel we behold her sapient device, which is the Pelican in the act of piercing its breast. But time, the sovereign arbitrator of all human projects, has evinced the inessicacy of her designs, and she has lost the merit of the work by leaving unfinished and exposed to the weather an edifice worthy of being transmitted down to the latest posterity.

I should not forget to mention the sentiments of a person of profound judgment respecting this building, and the entire monastery; I mean the grand master, Cardinal Vincent Justiniano, our General, who has seen and estimated the merits of most of the principal edifices of Europe, and whose testimony we can the less doubt, because he was a stranger, and a person of the most religious veracity and candor. When this Father came hither, he made observations upon every thing worthy of notice in the Kingdom. Upon seeing this convent he exclaimed with admiration—Videmus alterum Salomonis Templum.

# Of the Offerings the Founder bequeathed to the Convent.

ON the anniversaries of the King and his Sons, offerings are allowed to the convent, consisting of a certain quantity of wheat, wine, and wax. And as the order of this convent originally abstained from flesh-meat, the pious King wished likewise to add an offering of some dozens of dried whitings, of a large and wholesome species. These are of great service to the community, and easily obtained, as the sea-ports near the convent produce fish in great abundance. As the anniversaries are many, the offerings are princely, they amount to fifty-two moyas and a half of wheat\*, forty-three pipes of wine, twenty-four arrobas of wax †, and two hundred and sifteen dozen of sish. These offerings, reduced to money, the King commanded to be paid quarterly out of his revenue by the receiver of the district of Leiria. Since the prices of these articles have now increased, they amount to a considerable charity, and are at present the principal sustenance of the Fathers.

<sup>\*</sup> A Moya is about  $21\frac{\pi}{3}$  bushels, as we observed before.

Of the Ordinations the King commanded to be observed in this Convent by his Will.

"HAVING confidered the manner the Fathers of S. Dominick usually live in their communities, we command that the following ordinance be observed in the completion of the faid Monastery, and for the good support and maintenance of the faid Fathers. For this purpose we command and beseech the Infante Duarte my fon, or whoever may hereafter be King and Lord of these realms, that he fulfill and observe every thing after the manner by us prefcribed. First, we command that the said Monastery be finished with a cloyster, dormitories, and all other necessary apartments. That they be of such ample dimensions, as shall be found necessary, and, that the expences of the same be defrayed out of the rents of Leiria and its diftrict. That there be maintained and continued the same number of Friars which are in it at this time, and in the manner in which they are supported at present. That they observe the fame manner of praying, and faying their maffes, responses, and making funeral processions for my soul, and that of the Queen my wife---the Lord rest her foul! That they offer for the benefit of my foul, after interment, fuch masses and prayers as the faid Infante, or whoever may hereafter be King of these realms, shall ordain in the Monastery. And, that the number of thirty Fathers be kept in it, and supported in the undermentioned manner. and from henceforth observe the regulations by us ordained. And when the faid Monastery is complete in all the foresaid necessary works, with the rents and taxes of Leiria and its district, that there be drawn thence such sums as shall be found requisite for the maintenance of the said Fathers, and for the purchasing as many estates and holdings, as may decently support, and provide eating, drinking, clothing and shoes, for the said thirty Friars of the Dominican order, to wit, twenty of facred orders, ten Novices and Lay-Brothers, besides a certain number of servants, and likewise a baker, cook, muleteer, laundress, shoemaker, and such like persons as may be thought neceffary; and these thirty Fathers we command to live continually in the said Monastery."

Of the Regulations the King ordained for the Government and Preservation of the Edifice.

THE Pope, through the entreaty of the King, granted particular graces and indulgences to the Novices who take the habit in this Convent, or receive their education, or die in it. And as to bodily affairs, he did not forget to provide the Fathers with effentials. He ordained that a physician should reside continually in a neighbouring place, whence he could hasten to the indisposed. To this end he was obligated, not only by a competent salary, but likewise by

certain honours, and the privilege of a physician to the Royal Household. This he left established as firm as law could enact. Nor did his prudence forget the necessity which all great edifices have for continual reparation; therefore he ordered an agent, with the title of Surveyor of the Works, to refide in the vicinity, to whom a number of workmen of different trades were allowed, as often as there was necessity to build or repair any part, and these he honoured with certain exemptions and privileges. And, that there might be no faults nor delays in accomplishing every thing that was wanting, he commanded that they should be numerous, to wit, 125 stone-cutters, 56 quarrymen, 20 carters, 10 labourers, 1 fmith, and only 2 carpenters; as we obferved from the beginning, that there is no timber nor carpentry in the ftructure, except the doors, all the rest is stone and glass. For this class of people and their attendants, the honour of the privileges granted to them, was fufficient to make them always ready without any other inducement, because these privileges were always highly esteemed; but when actually employed, they were paid their ordinary wages besides.

Since the number and magnitude of the stained glass windows form a principal part of the beauty of this church; and as a thing so brittle is often in need of repair, the King assigned a particular sum to a glazier to keep them constantly in order; in pursuance of which, he was bound to replace at his own cost, whatever was damaged to the size of one palm, and all above that dimension was to be paid for in proportion, from the fund for similar expences.

THE

### EPITAPH OF KING JOHN I.

WE can never fufficiently acknowledge our obligations to this Prince, for giving us a place of abode, and choofing us for his perpetual chaplains. In teltimony of our reverence for his venerable remains, which he ordered to be deposited amongst us, we subjoin the following memorial of his glorious achievements, word for word as engraved on his sepulchre by order of his son King Edward:

IN nomine Domini, ferenifiimus, et femper invictus princeps, ac victoriolistimus et magnificus resplendens virtutibus, Dominus Joannes Regnorum Portugaliæ Decimus, Algarbii Sextus Rex, et post generale Hispaniæ vastamen primus ex Christianis famosse civitatis Septæ in Africa potentissimus Dominus, præsenti tumulo extat fepultus. Excellentissimus ide Rex, nobilissimæ ac fidelissimæ Civitatis Ulixbonæ ortus Anno Dom. 1358, extitit per Serenissimum Dominum Petrum suum genitorem militaribus in ætate quinquennij ibidem decoratus insignijs: et susteinens, post decessium Regis Ferdinandi fratris sui, ipsius Lixbonensis urbis et aliarum complurium munitionum, quæ se illi subdiderunt, gubernamen, obsessam personaliter per Regem Castellæ novem mensibus Ulixbonam mari grandissim classe, et per terram ingenti vallatam exercitu, et plurimis Portugalensium Regis Castellæ potentiam roborantibus circumseptam, adversus feras et multiplices impugnationes ipsam Ulixbonensem civitatem strenussisme defensavit.

Deinde nobilis civitatis Colimbricæ Anno Domini 1385, jocundiffime fublimatus in Regem, per fe et per fuos bellicos proceres miranda exercuit guerrarum certamina: et pluries adverfantium dominia et terras intrando gloriofiffimus triumphavit: et precipuam, et regiam circà iftud Monafterium victoriam eft adeptus: ubi Regem Caftellæ Dominum Joannem, fuorum maximo firmatum robore nativorum, et plurium Portugalienfium et aliorum extraneorum fultum fubfidiis, ifte invictifimus Rex, virtute Dei Omnipotentis, potentifimà debelavit: et quamplures iftus Regni munitiones et caftra jam fub hoftium redacta potefiate, viribus recuperavit armorum, ufque in fuæ vitæ terminum virtuofiffimè protegendo. Et Deo recognofcens, Gloriofiffimæque Virgini Mariæ, Dominæ noftræ, potiffimam victoriam, quam in vigilià Affumptionis obtinuit in menfe Augufti, hoc Monafterium in eorum laudem ædificari mandavit, præ cæteris Hifpaniæ fingularius et decentius. Et foli Deo optans honorem et gloriam exhiberi, et tantum ipfi aut propter eum majoritatem fore cognofcendam defriptionem, quæ fuorum prædecefforum temporibus in publicis firipturis fub Ærâ Cæfaris notabatur, decrevit fub Anno Domini inoftri Jefu fore de cætero annotandam. Hoc actum eft Ærâ Cæfaris M.CCCCLLX. et Anno Domini 1422, tempore aliter defluendo.

Iste felicissimus Rex, non minus reperiens quæ susceptar regna illicitis subjecta moribus, quam sævis hostibus, ipsa expurgavit cum diligentia salutari, et propriis actibus virtuoss ustata facinora extirpando, pullulare secit in his Regnis probitates honestas: et follicitus ad pacem cum Christianis amplectendam, eandem ante proprium decessum pro se susceptibus obtinuit perpetuam. Et succensus sidei servore, iste Christianissimus Rex, comitante eundem Serenistimo Insante Domino Eduardo suo filio et hærede, et Insante Domino Petro, et Insante Domino Henriquo, et Domino Alsonso Comite de Barcellos, præsti Regis filiis, et ingenti suorum naturalium impavidă sociatus potentia, cum maximà classe plus quam ducentis viginti aggregată navigiis, quorum pars numerosior maiores naves et grandiores extitere triremes, in Africam transfretavit, et die primă quâ telluri Afrorum impressit vestigia, nobilem et munitissimam civitatem Septam oppugnando in suam potestatem redegit mirisice, et postmodo eidem urbi plus quam centum mille (ut assentir) Agarenorum ultramarinis, et Granates pugnatoribus obsessite idem gloriofissimus Rex per suo illustres genitos, Insantem Dominum Henricum, et Insantem Dominum Joannem, et Dominum Alsonsum Comitem de Barcellos, et alios Dominos, et Generosos succursum misse qui fugantes de obsidione Agarenos quamplurimos in ore gladii trucidando; ipsorum classe succursum missendio, et captura conquassata, praedicam liberavit civitatem Septam: quam decem et octo annis minus octo diebus Anno Domini 1433, in mense Augusti, vigilià Affumptionis Sanctissimae Mariæ Virginis terminatis adversus bellicos Agarenorum multiplicatos, insultus validissime præssidiavit.

Mense autem et vigilià prædictis, iste gloriosissimus Rex in civitate Ulixbonæ, affistentibus suis filiis et aliis quamplurimis generosis, vitam feliciter complevit mortalem, relinquens notabilem urbem Septam sub potestate altissimi potentissimique Domini Eduardi silii eius, qui paternos actus viriliter imitando, candem in side Jesu Christi nititur prospere gubernare. Iste autem excellentissimus et virtuosissimus Rex Dominus Eduardus transtulit honorantissime corpus Christianissimi Regis patris sui, afistentibus eidem suis germanis, Infante Domino Petro Duce Colimbriae, et Montis Majoris Domino; Infante D. Henrico Duce de Viseo, et Domino Covillianæ, et Gobernatore Magistratùs Christi; Infante Domino Joanne Comitestabili Portugaliae et Gobernatore Magistratus Sancti Jacobi; et Insante Domino Ferdinando, et Domino Alsonso, Comite de Barcellos, filiis præsati Regis Domini Joannis, qui tempore sui obitus alios non habebat, præter duas filias, quarum una erat Domina Infans Elisabeth,

Ducifia Burgundiae et Comitifia Flandriae, et aliorum Ducatûum et Comitatûum: et alia Domina Beatrix Comitifia Hontinto, et Arondel, quæ in fuis terris permanebant. Habebat autem Dominus Joannes nepotes qui Dominicæ translationi affuerunt, Dominum Alfonfum Comitem de Ourem, et Dominum Ferdinandum Comitem de Arrayolos, filios Comitis de Barcellos: et habebat nepotem Dominum Infantem Alfonfum primogenitum Domini Eduardi, et alios nepotes, et pronepotes, qui annumerati cum filiis erant viginti, tempore quo de præfenti fæculo migravit ad Dominum.

Affuerunt etiam hujus translationis celebritati omnes qui tunc in Cathedralibus Ecclesiis isforum Regnorum Prælati erant, et alii complures, cum multitudine Clericorum et Religiosorum coploså: et Domini et Generosi hujus patriæ, civitatum etiam et munitionum Procuratores extitere præsentes. Fuit autem venerandissimè delatum Regium Corpus ejus ad istud Monasterium trigesimà die Novembris Anno Domini supradicto, et in Capellà majori cum excellentissimà, et honestissimà, et Christianissimà Dominà Philippà ejus unicà uxore, prædictorum Regis Eduardi et Infantum, et Ducissà illustrissimà genitrice. Anno vero sequenti, die decimà quartà mensis Augusti, fuere per Regem Eduardum, et Infantes et Comites prælibata corpora prædictorum Regis, et Reginæ Philippæ cum honore mirisco ad hanc Capellam delata, quam ædisicari pro sua sepultura imperavit, et huic deductioni extitere præsentes altissima et excellentissima princeps Domina Leonor horum Regnorum Regina, et Infans Domina Elisabeth Ducissa Colimbriz, et Infans Domina Elisabeth uxor Infantis Domini Joannis, et præcipua pars Dominorum et Generosorum itsus terræ, qui interfuerunt repulturis prædictorum Dominorum Regis et Reginæ, quibus Deus sua miseratione et pietate largiri dignetur sine se falcicitatem. Amen.

THE

# EPITAPH OF QUEEN PHILIPPA.

In gratitude to the memory of this most virtuous and excellent Queen, the confort of so great a King and the mother of so many illustrious Princes, we give the following Epitaph, which was dictated by her Royal Husband, and engraved on her tomb by command of King Edward her son:

HÆC felicissima Regina à puellari ætate, usque in suæ terminum vitæ, fuit Deo devotissima: et divinis officiis roccientice confuctis tam diligenter intenta, quod clerici et devoti erant religiosè per eandem fæpius eruditi i in oratione autem tam continua, quod demptis temporibus gubernationi vitæ neceffariis, contemplationi aut lectioni, seu devota orationi totum residuum applicabat. Plurimum vero sidelissime dilexit proprium virum: et moralissimè proprios filios castigando virtuosissima doctrinavit: et bona temporalia circà Ecclesias et Monasteria diffribuendo pauperibus plurima erogabat ; generofis Domicellis maritandis manus liberalissimas porrigebat. Erat enim integra populi amatrix et pacis plena defideratrix, et efficax adjutrix ad pacem habendam cum Christicolis universis, et libenter affentiens in devastationem infidelium pro Dei injurià vindicandà : et tantum prona etiam ad indulgentiam, quod nunquam accepit de fibi errantibus, nec confenfit vindictam fieri aliqualem. Virtuofillima ista Domina extitit fœminis maritatis bene vivendi regulare exemplar, Domicellis directio, et totius honeftatis occasio; cunctifque fuis fubjectis fuit curialis urbanitatis moderatissima doctrix. In his autem et aliis quamplurimis perfeverando virtutibus, quarum plurimitatem hujus lapidis humilitas nequiret ullatenus præfentare, dictim et continuè pervenit ad iftius vivendæ mortalis limitem ordinatum; et ficut ejus vita fuit optima et valde facra, fic mors extitit preciofa in confpectu Domini, et nimium gloriofa: et, receptis laudabiliter omnibus Ecclefiafticis facramentis, proprios filios benedixit, commendans eifdem quæ intendebat fore ad divinum obfequium et honorem et profectum iftorum Regnorum, et quæ in eis sperabat causatura crementum indubiè: virtuosissime, taliterque hujus mundi labores finaliter adimplevit, quod præfentes, qui relata audierunt, firmam fuæ falvationis fpem retinent fingularem. Obiit autem decimâ octavâ die Julii Anno Domini 1415, et in Monasterio de Odivellis ante chorum Monialium decimà nonà die menfis ejufdem extitit fepulta: et anno fequenti, menfis Octobris die nonà fuit prætiofum corpus ejus defepultum, integrum inventum et fuaviter odoriferum, et per victoriofilimum Regem Turt prætouan corpus eus acceptatuan, magram inventant et navnet odornerum, et per victorianium Regent Dominum Joannem ejus conjugem, et per Serenillimos Infantes, fellicer, Dominum Eduardum fium primoge-nitum, et Dominum Petrum Colimbriæ Ducem, et Dominum Henricum Ducem Vifeenfem, et Dominum Joannem, et Dominum Fernandum, et Infantem Dominam Elifabeth, ipfius gloriofissimi Regis et felicissimæ Reginæ filios; fociante Prælatorum, et Clericorum et Religioforum copià numerosà, et Dominis et generofis Dominabus, et nnos, nocame riceatorum, et ciercorum et cengororum copia intinetosa, et Dominis et generorus Dominiantis, et Dominicellis quamplurimis comitantibus, fuit corpus dicta Regiane honorandifime translatum ad ifud Monafterium de Victorià, et tumulatum in Capellà majori et principaliori, die menfis Octobris decimà quintà Anno Domini 1416; et posteà suit translatum ad hanc Capellam, in hoc tumulo reconditum cum corpore gloriosissimi Regis Domini Joannis, fni conjugis virtuofillimi, fub illà formà quæ in fuo epitaphio continetur. Horum autem personas Deus omnipotens glorificare dignetur perpetua fælicitate. Amen.

END OF DE SOUSA'S HISTORY.

A Paper, of which the following is a Translation, I am indebted for to the Journal of the Right Honourable WILLIAM CONYNGHAM. The Original is in French, and appears to have been written by one of the Fathers of Batalha for the above Gentleman when he visited the Monastery in 1783.

## ACCOUNT

OF THE

#### MODERN ESTABLISHMENT

OF THE

### ROYAL CONVENT OF BATALHA.

The number of Friars refiding in the Convent are forty-four, of the Dominican order; to wit, twenty-five in facred orders; two Deacons; four Novices; and thirteen Lay-brothers. They are governed by a Prior and three fubordinate dignitaries, viz. a Rector of Novices, a Vicar, and a Master of Morals. There are two Professors for teaching grammar to feculars, and another for instructing them to read and write. The other officers of the Monastery are, the Sacrift, Precentor, Cellerarius, Granatarius, and the Elesmosynarius. There are also two Treastures under the direction of the Prior; each has a separate key of the chest, which contains the stock of the community.

The annual revenue of the Convent is computed at between ten and twelve thousand cruzados \*, according to the fale of the fruit. The fixed revenue is 3,000 cruzados and forty moyas † of wheat, befides 200 mil reis received annually from the custom-house of Oporto.

The difburfements amount on an average to 7,000 cruzados a year. Each Friar is allowed 4,800 reis ‡ for his clothing. The tillage of the effate called Lyinta da Vorgea amounts to 400 mil reis per annum; at prefent it is farmed for one half of its produce. There are also let out four mills, one of flour and three of oil. In rebuilding the Dominican Church at Lisbon, which had been destroyed by the great earthquake, the Convent contributes 300 mil reis annually. The expences attending the Church, in wax, &c. amount to 200 mil reis. The remainder of the income is expended in repairs and other contingencies.

There are fourteen fervants belonging to the Monaftery. The cook is allowed 4,800 reis a year, and wine at differetion. The carters have but three moidores a year without victuals, except two, who are allowed four moidores. The fhepherd and fwineherd have each 600 reis a month, and four alqueires of maize. The two boys who attend the Sacrifty and Choir have no fixed falary.

Every year the Convent has four feafis and two days of double allowance; the ordinary allowance of each Father is  $\tau_{\hat{z}}^{i}$  lb. of meat, and the fame quantity of fifh; befides wine, fruit, &cc.

\* A cruzado (velhe) is worth 2s. 3d. † A moya contains about 21 % bulhels. ‡ A thousand reis is equal to 5s. 7 % d.

# A Description of the several Parts of the General Plan.

THE length of the Building from the Western entrance at A to the Eastern extremity at Z	Tret,	In.
The extent of the Church and Monastery from Y to B, North and South	416	74
	541	07

- C The Maufoleum of King John the First.
- D The Church.
- E The Transept.
- Stairs leading to the Roof of the Church.
- b Stairs leading to the Organ-loft, Roof of North Aifle, &c.
- The fituation of the Organ.
- d The Pulpit.
- F An Altar dedicated to our Saviour.
- G The Choir.
- e The High Altar dedicated to God.
- H Chapel of our Lady of the Affumption.
  I Chapel of our Lady of the Rofary.
  J Chapel of our Lady of Mercy.
- K Chapel of St. Michael.
- L The Sacristy.
- M The Tower over which the Spire is built.
- N Caza da Prata, or Room where the Plate, Relicks, &cc. are deposited.
- O Chapter-houfe.
- P Loggia of the Mausoleum of King Emanuel.
- O Receffes for Altars.
- f.f Small Receffes to contain the Phials with the Elements used in the Celebration of the Holy Sacrament.
- R Maufoleum of King Emanuel.
- S Chapels.
- T The Chapel intended for King Emanuel.
- g Apparently intended as a Repository for the Vestments of the Clergy.
- V Excavations evidently intended for Sepulchres.
- h The Entrance to the Excavations, which is filled up with hewn Stone without Cement.
- Stairs leading to the Platform over the Chapels.
- W The Royal Cloifter.
- W W The Walks of the Cloifter, through which the Friars and Novices pass in Procession from the Choir to the Refectory and back again, chanting grace before and after dinner \*.
- X A Garden.
- k Ciftern.
- A Great Fountain.
- B Refectory.
- Prior's Seat
- m The Pulpit, where one of the Novices reads the Holy Scripture whilst the Friars are at their meals.

- n Apertures where two of the Novices receive the diffies from the Cook, which they carry to the Friars.
- C The Kitchen.
- D The Larder.
- E A fmall Refectory, where the Prior and fome of the principal Fathers occasionally dine.
- F The Wine and Fruit Cellar.
- G The Hall where the Professors give Lectures.
- H The Sacrift's Store-room.
- o The Belfry.
- p Stairs leading to Prior's Apartments, &c.

  I An open Arcade rehard the An open Arcade, where the Laundreffes, &c. belonging to the Convent are permitted to enter.
- 7 The School
- q Stairs leading to the Wheel of the Lay Brothers' Corrido
- K Servants' Hall.
- r Stairs leading to the principal Cells.
- Corridor leading to the Church.
- Wax Chandler's Room.
- L Servants' Cloister.
- M A Court planted with Orange-trees.
- N Lay Brothers' Cloister.
- O A Garden.
- P Novices' Cloifter.
- 2 Novices' Garden.
- R Store for Fuel.
- S Oil Magazine.
- T Wine Press. tt Labourers' Store-rooms
- v v Artificers' Store-rooms.
- V Cloaca
- w Stairs leading from the Dormitories to the Refectory.
- Servants' Cell.
- W Magazines for provisions.
- X Granary. y Corridor.
- Stairs leading to Lay Brothers' Cells.
- ? Labourers' Apartments.
- Z Prior's Coach-house and Stable.
- a a Stalls for Cattle.
- b b Repository for Implements of Husbandry.
- I. H. HI. IV. Comprehends the space finished during
- the life-time of the Founder.

  I. II. VI. V. Comprehends the fpace built by King Edward, Son of the Founder.

### References to the Tombs.

- a Tomb of King John the First and Queen Philippa his | c Tomb of Don Anrique, Duke of Viseu, Knight of the Confort
- b Tomb of Don Pedro, Duke of Coimbra, Knight of the Garter, &cc.
- Garter, 800
- d Tomb of Don John, Master of the Order of Santiago, 8zc.

#### THE HISTORY AND DESCRIPTION

e Tomb of the Infante Don Fernando.

N. B. The above Princes were Sons of King John the First.

f Tomb of King Edward and Queen Lianor.

g Tomb of King John the Second.

b Tomb of Don Lopo Diaz de Soufa\*.

i Tomb of Dona Mecia, wife of the Condé de Miranda, Anrique de Soufa.

& Tomb of Dona Isabel, Queen of Alfonso the Fifth.

I Tomb of a Cardinal whose name and family are un-

m Tomb of King Alfonso V.

n Tomb of Prince Alfonio, son of Jobn II.

o A Tomb-stone on which is carved in relief a large
Gothic D, surrounded with a glory. It is
thought to be the Tomb of Don Diago Gonfalvez Travessos, a great favourite of King John L

p A plain Tomb-stone, without any inscription, under which, it is faid, lies a Soldier who faved King

John's life in battle.

Near the entrance of the Church are the Names of the following Workmen, who are there interred.

First Master Workmen.

Mestre Congiate. A stranger.

Mestre Conrado. A stranger.

First Master Workmen for the Windows.

Mestre Whitaker. A stranger.

Ornaments, Mottos, &c. appertaining to the Royal Monastery of Batalba.

Figures 1, 2, 3, and 4. Capitals in the Nave of the Church.

Fig. 5. A Capital in one of the Windows. North Front.

-- in the Arcade of the Royal Cloifter.

7. — in one of the Windows. South Front. 8, — in the Maufoleum of the Founder.

9. - in the Western Porch.

Io. - in the Transept entrance.

II. A Corbel supporting the Precentor's feat in the Choir.

12. Ornaments appended to the Intrados of the Arches in the Maufoleum of the Founder.

13. An Ornament in one of the Arches of the great Fountain,

14. A Specimen of the Ornaments placed on the Arches of contrary Flexion. West Front.

15. One of the Ornaments on the Angles of the Spire.

16. Profile of the above Ornament.
17 and 18. Pateras of the Pendent Orbs in the Chapter House.

19. A mural Font in the Mausoleum of the

20. A Patera in the centre Vault of the above Maufoleum.

21. A Patera in one of the Aifle Vaults of the Church. 22. A Figure supporting one of the Ribs of the Vault in the Chapter House, supposed to represent the Architect of that Fabrick.

23. John the First's Sword and Battle-axe.

24. John the First's Helmet.

25. John the Second's Sword and Battle-axe. 26. Ornaments of the Maufoleum of the Founder,

externally.

27. A Tablet in the front of a fmall House opposite to the Church, faid to be wrought by the Workmen of Batalha.

No. 28. Motto on the Tomb of King John the First.

No. 29. — on the Tomb of Don Pedro.
No. 30. — on the Tomb of Don Anrique.

No. 31. - on the Tomb of Don John.

Columns, Ornaments, and Hieroglypbicks in the Mausoleum of King Emanuel.

Figures 1, 2, 3, 4, 5, and 6. Columns at the entrance of the Maufoleum.

Fig. 7. Pedeftal of the above Columns.

8. In each Angle of the Octagon, there is a Column like this, from the Top of which the Ribs of the intended Vault commence. 9. Hieroglyphicks at the Entrance of the Mauso-

leum.

10. Ornaments in the intervening spaces of the Columns at the Entrance.

II. Architrave, Frieze, and Cornice of the Mausoleum. Internally.
12, 13, and 14. Vases on the Pedestals and Pilasters

of the intended Orchestre.

15. An Ornament over the Loggia.

16. A Balufter in front of the intended Orcheftre.
17. The Initials of the Founder's name, i. e. Manoel Rex. These letters are often repeated on the Architraves of the large Windows of the Octagon.

† This tomb is modern, but well defigued and executed in different kinds of marble; and fupported by three coachant lions of Sienas, with their paws retling upon as many balls, intended, I fuppofs; to indicate musality. The top of the monument is finished with a ducal coroner retling upon a cufficion, and fupported by two weeping flugures of Carran arable. In the middle is a

Decima, Regia, Persona, Masculina, Hic Sepulta Est.

#### OBSERVATION.

The Work from which we have translated the foregoing Account of Bakaiha, entitled Historia de St. Dominingos, was published at Liston in the year 1622, under the names of Cacegas and De Sousa. The former, who was historiographer to the Dominican Order in the Portuguese dominions, first compiled the History of that Order; and fome years after it was continued by De Sousa, who also made many alterations in, and additions to, what his predecessor had written. From the superiority this writer possessed as an historian over Cacegas, and the approbation his labours received from the literation Portugal, the Work at present bears the title of De Sousa's History of the Dominican Order.

From this Hiftory I have felected fuch facts as appeared effential to my purpofe, and no more; and even the paffages thus felected are not always rendered word for word with the original text. Where the author had either miftook or mifunderflood the terms of architecture, which indeed is excufable in an hiftorian, I thought myfelf authorified in giving them their proper names. I have also corrected the dimensions he assigns to some parts of the edifice when I found them wrong, and inserted the real measurements in their place, in set and inches. As it would be tedious and uninteresting to enter upon a discussion with my Author on these points, I generally omitted to notice them. Such are the liberties taken with Father De Sousa's Account of Batalha in the foregoing Translation, of which I thought it necessary to apprise the Reader.

#### MEMOIRS OF FATHER LEWIS DE SOUSA.

As the circumftance which induced our Author to feclude himfelf from the world and become a Friar is rather fingular, a fhort account of it may not be unacceptable.

In 1578, when Don Sebastian King of Portugal was defeated and slain in a pitched battle against Muly Moloch Emperor of Morocco, many of the nobility of Portugal, who accompanied him, shared the same fate; and others who fell into the enemy's hands were made captives.

Amongst the gentlemen who accompanied King Sebastian in this unfortunate expedition, was one whose name the Biographer has omitted; it was included, however, in the return of the slain. When his wife, who resided in Lisbon, received the intelligence, she nevertheless entertained hopes that it might have been a mistake, and that Heaven would yet savour her with a sight of him.

Under this pleasing expectation she remained ten years, notwithstanding the repeated accounts she received from the agents employed to redeem the captives confirmed the relation of his death. Her friends, who were convinced of the truth of it, entreated her to relinquish the idea of ever seeing him, and to enter once more into the marriage state.

Soufa at this time moved in the first circles of fashion; his company was much fought for, as he was an excellent scholar, as well as an accomplished gentleman. He paid his addresses to this lady; her incredulity respecting her husband's death at this time began to give way, and she was prevailed on by her relations to give him her band.

Accordingly they were married, and lived together in the greatest harmony. But it was of short duration: a merchant from Africa arrived in Lisbon, sought out the lady, and informed her, that he was charged with a commission from her husband, who was in captivity, and relied upon her affection to expedite his release.

miffion from her husband, who was in captivity, and relied upon her affection to expedite his relacie.

The unfortunate woman, quite overwhelmed with shame and surprise, in this affecting dilemma asked De Sousa's advice, who was also assonished at the news. As he was a prudent and conscientious man, he resolved to be guided in a matter of such delicacy by the purest distates of honour.

In the first place, in order to ascertain the fact, he had recourse to an ingenious expedient: he conducted the messenger to a picture-gallery in his house, and told him that a portrait of the gentleman whom he affirmed to have seen was in the collection, and requested him to point it out, as a proof that there was no missake in his declaration. The merchant endeavoured to excuse himself, saying that a long state of servitude and cruel treatment had made such a change in the captive gentleman, that he doubted if his most intimate friends could recognize him if he were present: nevertheless, says he, some leading features induce me to think that this is his portrait, pointing to the identical one. Sould from this and other collateral circumstances was now convinced of the truth of the whole, and applicable the merchant for his humanity.

This affair affected Soula very much: he deliberated with himself in what manner to act; at length he resolved, having no children to provide for, to retire from the world and seclude himself in a monastery. The wife approved the resolution; and, as a proof of her grief and affection, retired also into a nunnery near Lisbon. But previous to

their feclution, they ufed every means in their power to refcue the unfortunate gentleman from captivity.

Soufa now entered into the Dominican Order, and lived in the Convent of Bemfica near Lifbon. The Fathers of this Order, defirous of completing the Hilfory of their Foundarion, thought this a favourable opportunity; and knowing Soufa to be a man of great talents, they requefted him to undertake the tafk, and perfect what Cacegas, a Friar of the fame Order, had begun. He accordingly fet about it, and, after many years labour, published it in 1619, under the name of Cacegas and his own; thus, from his extreme modefty, dividing the honour of the work, the whole of which he could juftly claim as his own. But pofterity has done juftice to his memory, and Cacegas's name is now remembered only through De Soufa's works.

name is now remembered only through be sound with a sound

### DIRECTIONS FOR PLACING THE PLATES.

 $\mathbf{T}_{ ext{HE}}$  Dedication to precede the Preface.

Plates 1, 2, 3, 4, Introduction; and the Transverse Section of the Church; after the Introduction.

The reft of the Plates to be placed after the History, in the following Order:

General Plan.

North Elevation of the Church, &cc. Longitudinal Section of the Church. Elevation of the Chancel. Section of the Chapter House. Elevation of the Refectory. West Elevation of the Church. Elevation of the Transept Entrance. Interior View of the Church.

Elevation of the Maufoleum of King John. Section of the Maufoleum of King John.

Effigies of King John and Queen Philippa.

Entrance to the Maufoleum of King Emanuel.

Defign for completing the Maufoleum of K. Emanuel.

Arches appertaining to the Maufoleum of K. Emanuel.

Ornaments, Mottos, &c.

Columns, Ornaments, and Hieroglyphicks.

Elevation of the Pillars of the Church.

Elevation and Section of the Spire.

Rails, Cornices, and Arched Modillions.

Total, Twenty-feven with the Title.

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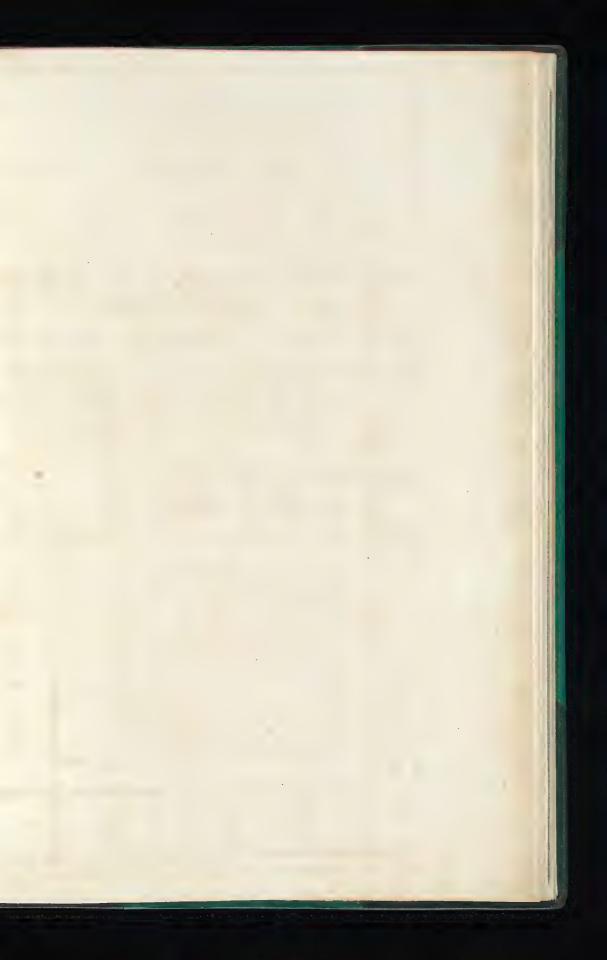
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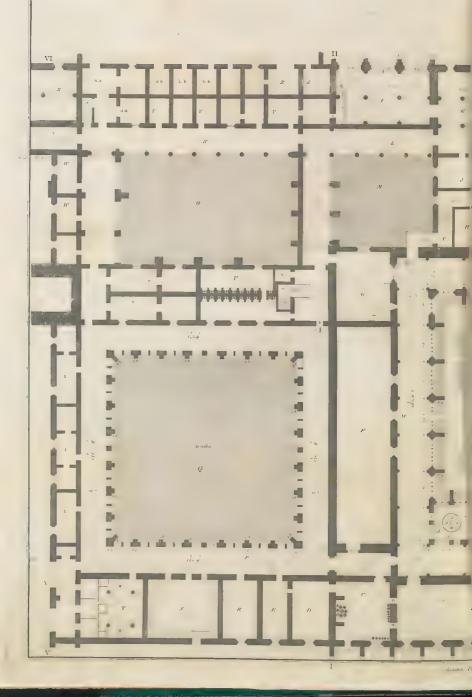
Since the former sheets of this work were printed, the author has been favoured by the Rev. Herbert Hill, chaplain to the British Factory at Lithon, with an Extract from a Portuguese Historian\*; wherein are ascertained, apparently from good authority, the name and country of the Architect of BATALHA. The following is a Translation of the passage:

"Fr. Luis de Soufa, in the History of the Dominican Order, part I, and D. Fernandes de Menezes, Count de Ereiceira, at the end of the Life of King John I. have both described the Royal Monastery of Batalha with all the exactiness and elegance which it well merits. To these Authors I refer the Reader for an account of that noble editice; all eff my unpositified lan"guage should fully its renown, I shall only observe, that the Architect of it was an Irishman, named David Hacket, who then 
"lived in Vlanna da Caminha, as may be seen in one of the Memoirs of Fr. Antonio da Madureira, a Dominican friar, and a 
"celebrated genealogish."

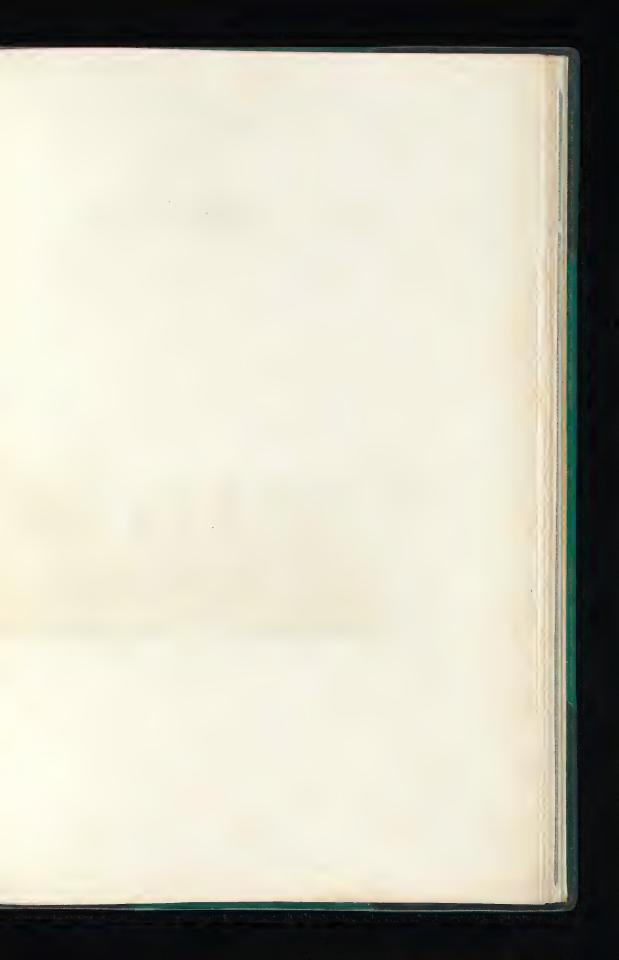
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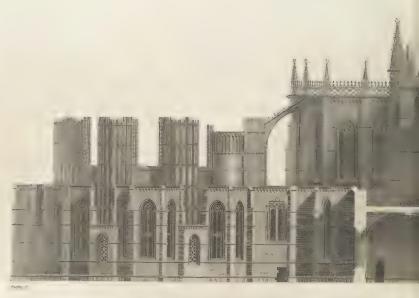


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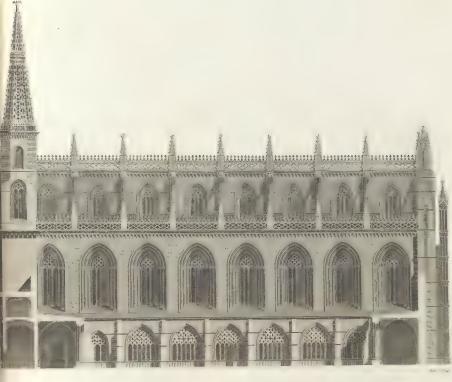






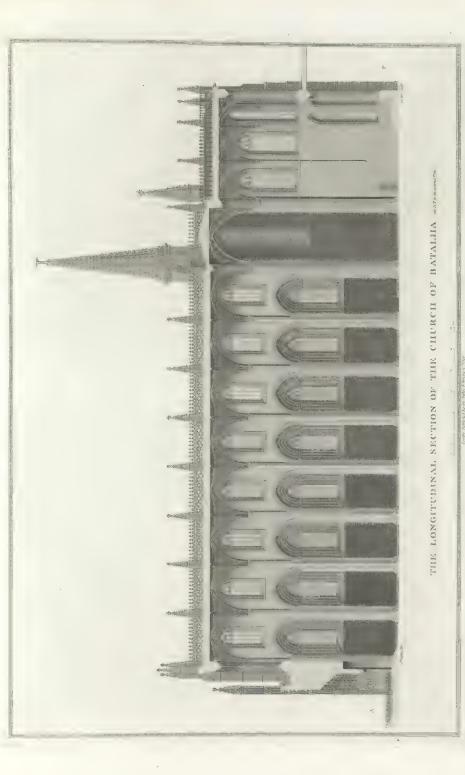
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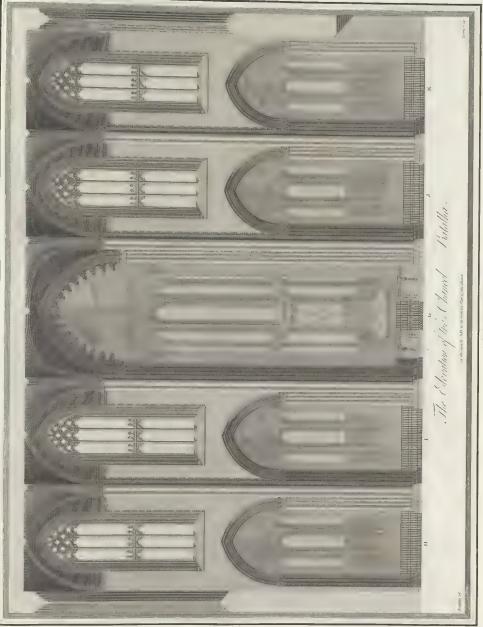


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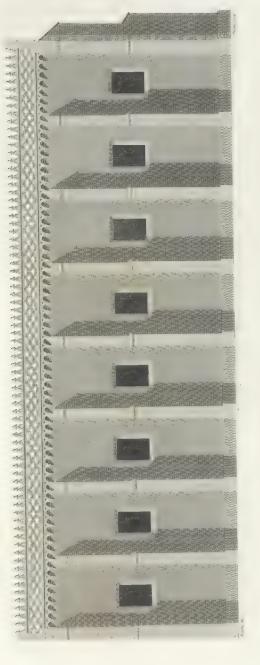


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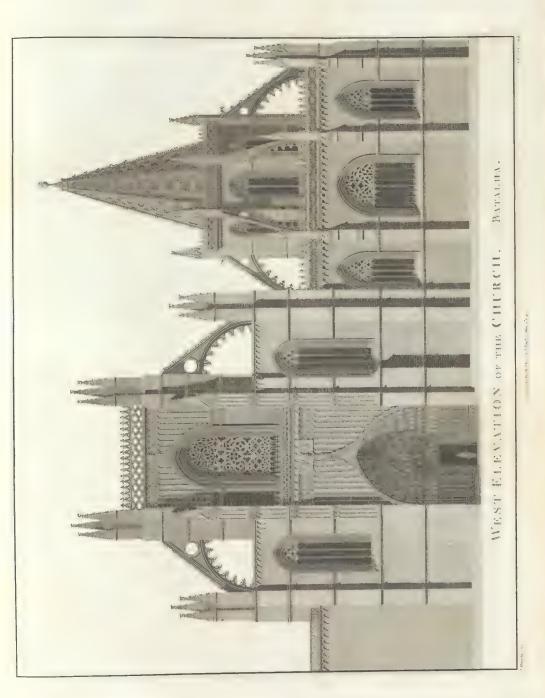




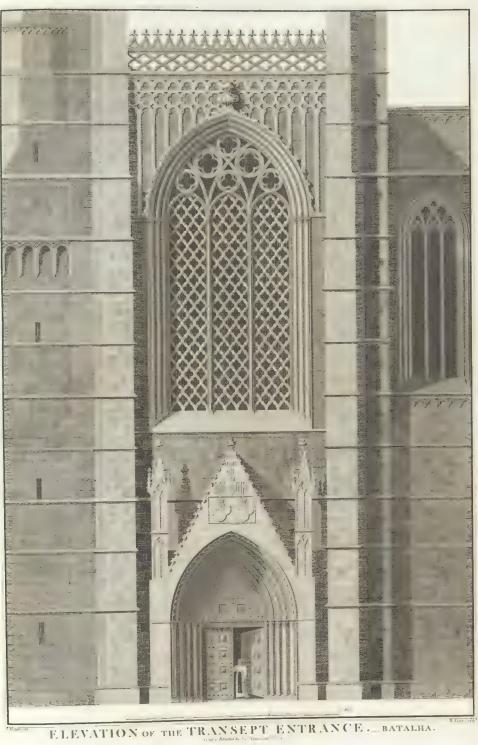


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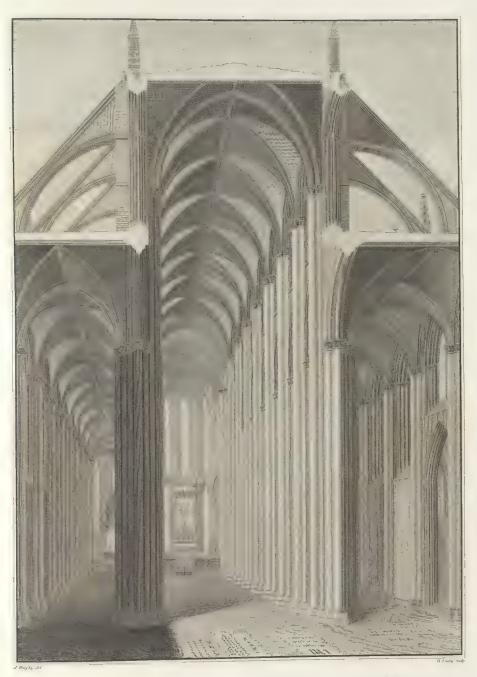






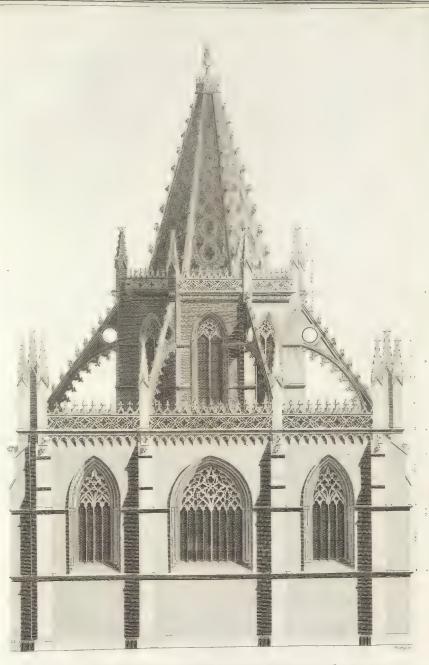






INTERIOR VIEW OF THE CHURCH OF BATALHA.

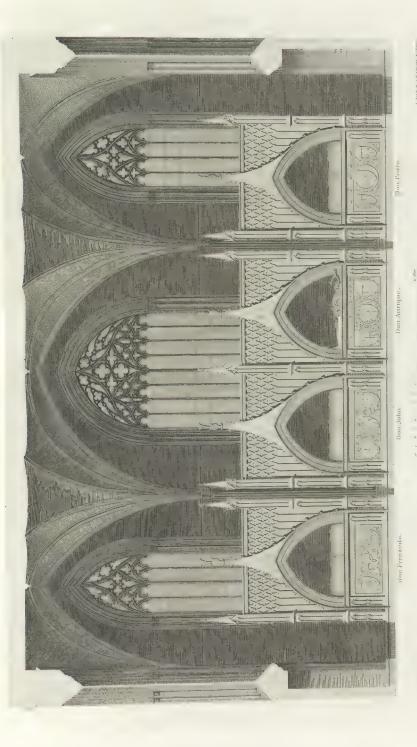




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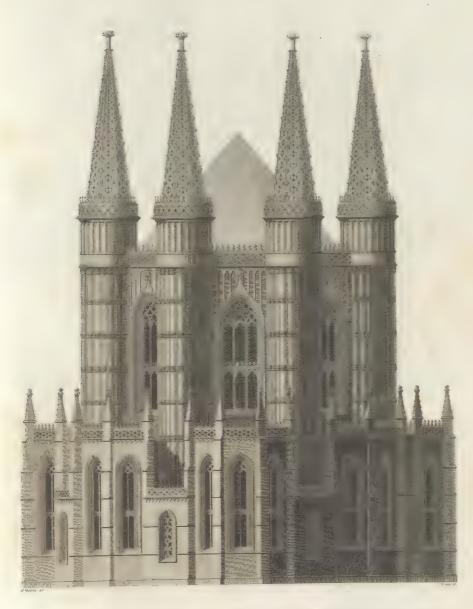
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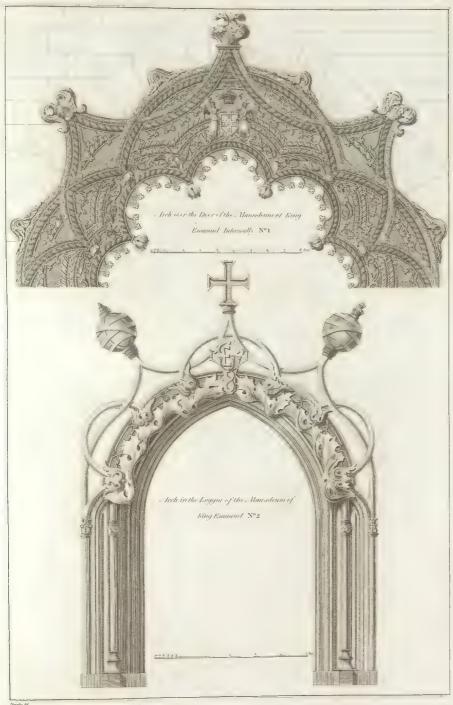




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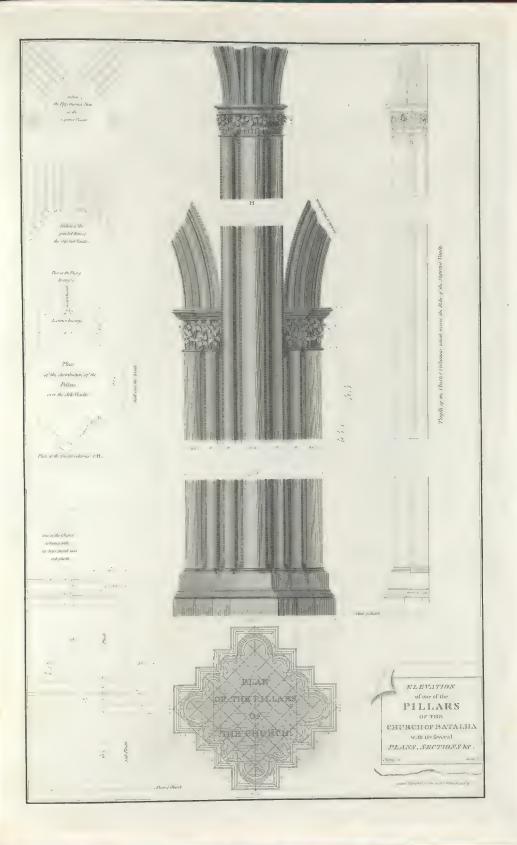
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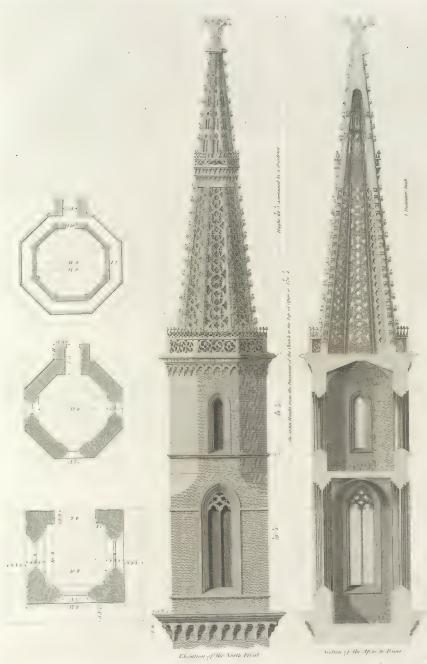


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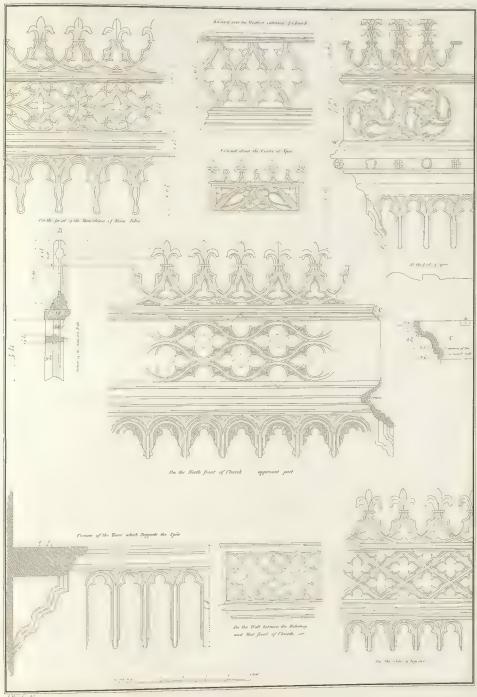


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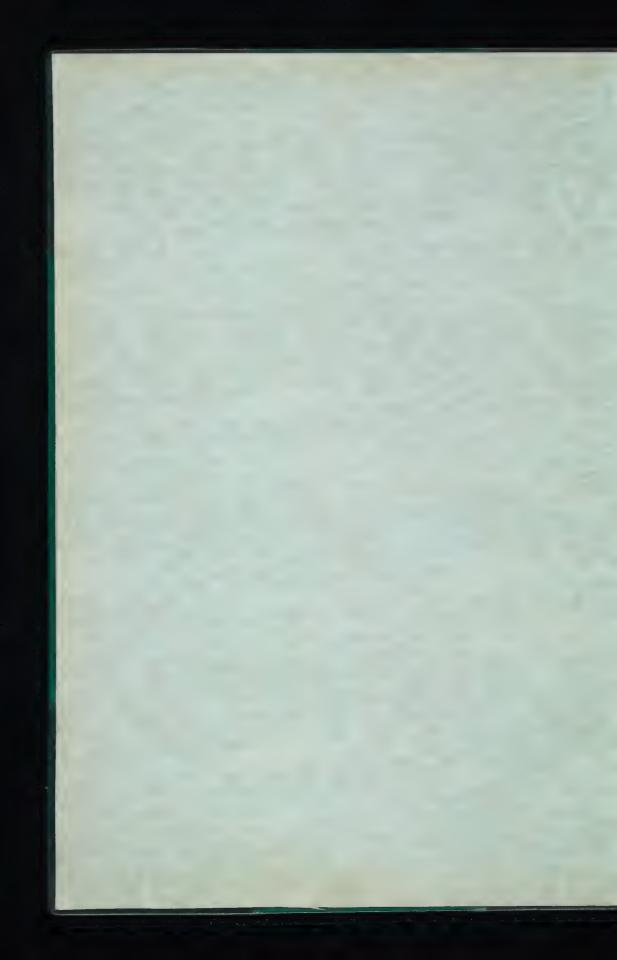
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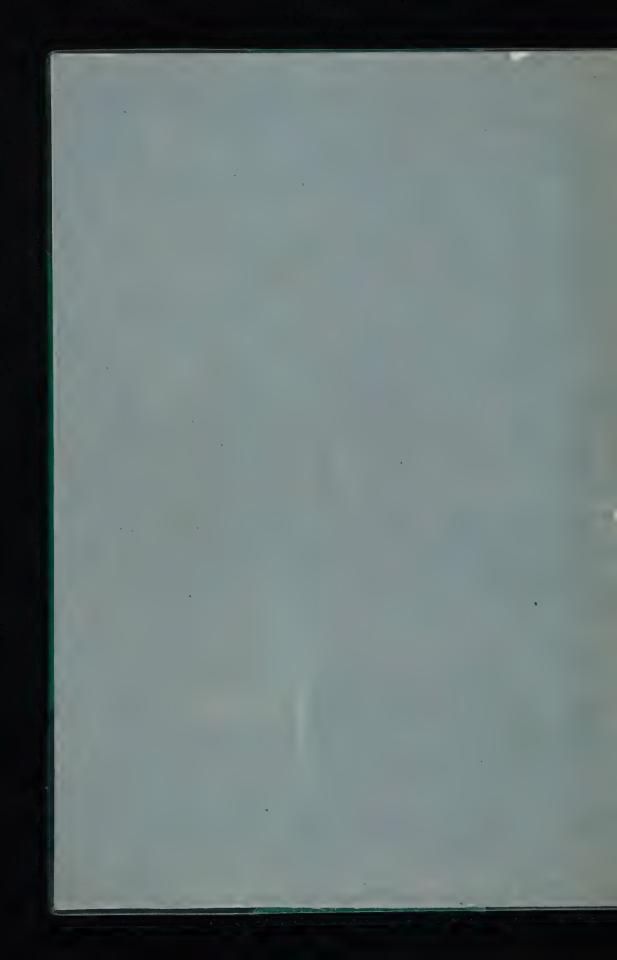
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